

TATriumph-Adler

The Document Business

CONSULTING REALISATION EFFICIENCY



Instruction Handbook

CLP 4521 | 4621 | 4626



Colour Printer

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Legal and Safety Information



CAUTION NO LIABILITY IS ASSUMED FOR ANY
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Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL.

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Compliance and Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The use of a non-shielded interface cable with the referenced device is prohibited.

CAUTION — The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

* The above warning is valid only in the United States of America.

Interface connectors

IMPORTANT Be sure to power off the printer before connecting or disconnecting an interface cable. For protection against static electricity discharge to the printer's internal electronics through the interface connector(s), cover any interface connector that is not in use with the protective cap supplied.



Note Use shielded interface cables.

Safety Information

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape from the printer during any phase of user operation.

Laser Notice

This printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 825.



DANGER CLASS 3B INVISIBLE LASER RADIATION
WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.



CAUTION Use of controls or adjustments or performance
of procedures other than those specified herein may result
in hazardous radiation exposure.

Radio Frequency Transmitter

This machine contains a transmitter module. We, the manufacturer (UTAX GmbH) hereby declare that this equipment (page printer), model CLP 4521, CLP 4621 and CLP 4626 are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Radio Tag Technology

In some countries, the radio tag technology used in this equipment to identify the toner container may be subject to authorization, and the use of this equipment may consequently be restricted.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

Ozone concentration

The printers generate ozone gas (O₃) which may concentrate in the place of installation and cause an unpleasant smell. To minimize the concentration of ozone gas to less than 0.1 ppm, we recommend you not to install the printer in a confined area where ventilation is blocked.

Safety Instructions Regarding the Disconnection of Power

Caution: The power plug is the main isolation device! Other switches on the equipment are only functional switches and are not suitable for isolating the equipment from the power source.

VORSICHT: Der Netzstecker ist die Hauptisoliervorrichtung! Die anderen Schalter auf dem Gerät sind nur Funktionsschalter und können nicht verwendet werden, um den Stromfluss im Gerät zu unterbrechen.



DECLARATION OF CONFORMITY TO

2004/108/EC, 2006/95/EEC, 93/68/EEC and 1999/5/EC

We declare under our sole responsibility that the product to which this declaration relates is in conformity with the following specifications.

EN55024
EN55022 Class B
EN61000-3-2
EN61000-3-3
EN60950-1
EN60825-1
EN300 330-1
EN300 330-2

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes du ministère des Communications du Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EN ISO 7779

Maschinenlärminformations-Verordnung 3. GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779.

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Energy Saving Control Function

The device comes equipped with a **Low Power Mode** where energy consumption is reduced after a certain amount of time elapses since the device was last used, as well as a **Sleep Mode** where printer functions remain in a waiting state but power consumption is still reduced to a minimum when there is no activity with the device within a set amount of time.

Low Power Mode

The device automatically enters Low Power Mode when 10 minutes have passed since the device was last used. The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened.

Sleep

The device automatically enters Sleep when 30 minutes have passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to *Sleep Timer (Sleep timer timeout setting)* section of the *Advanced Operation Guide*.

Automatic 2-Sided Print Function

This device includes 2-sided printing as a standard function. For example, by printing two 1-sided originals onto a single sheet of paper as a 2-sided print, it is possible to lower the amount of paper used. For more information, refer to *Duplex (Duplex Printing)* section of the *Advanced Operation Guide*.

Paper Recycling

This device supports the recycled paper which reduces the load on the environment. Your sales or service representative can provide information about recommended paper types.

Energy Star (ENERGY STAR®) Program

We have determined as a participating company in the International Energy Star Program that this product is compliant with the standards laid out in the International Energy Star Program.



Installation Precautions

Environment

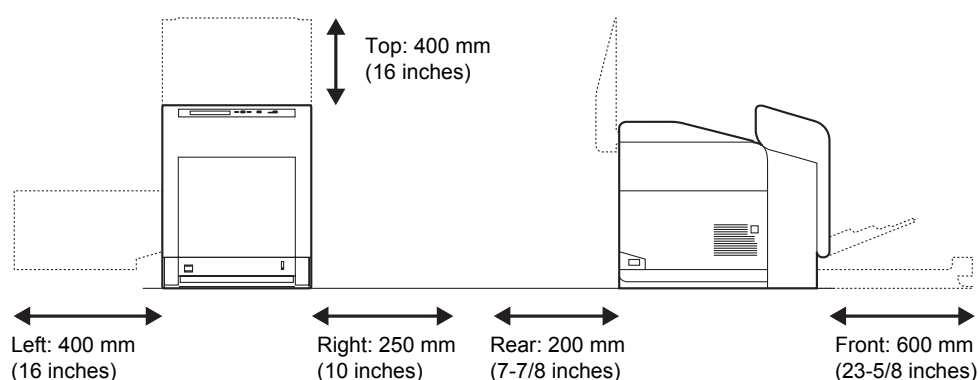


CAUTION Avoid placing the printer on or in locations which are unstable or not level. Such locations may cause the printer to fall. This type of situation presents a danger of personal injury or damage to the printer.

Avoid locations with humidity or dust and dirt. If dust or dirt becomes attached to the power plug, clean the plug to avoid the danger of fire or electrical shock.

Avoid locations near radiators, heaters, or other heat sources, or locations near flammable items, to avoid the danger of fire.

To keep the printer cool and facilitate changing of parts and maintenance, allow access space as shown below. Leave adequate space, especially around the side cover, to allow air to be properly ventilated from the printer.



Other Precautions

Adverse environmental conditions may affect the safe operation and performance of the printer. Install in an air-conditioned room (recommended room temperature: around 23 °C, humidity: around 60 % RH) and avoid the following locations when selecting a site for the printer.

- Avoid locations near a window or with exposure to direct sunlight.
- Avoid locations with vibrations.
- Avoid locations with drastic temperature fluctuations.
- Avoid locations with direct exposure to hot or cold air.
- Avoid poorly ventilated locations.

If the flooring is of a soft material, it may be damaged by the casters when this product is moved after installation.

Power Supply/Grounding the Printer



WARNING Do not use a power supply with a voltage other than that specified. Avoid multiple connections in the same outlet. These types of situations present a danger of fire or electrical shock.

Plug the power cord securely into the outlet. If metallic objects come in contact with the prongs on the plug, it may cause a fire or electric shock.

Always connect the printer to an outlet with a ground connection to avoid the danger of fire or electrical shock in case of an electric short. If an earth connection is not possible, contact your service representative.

Other Precautions

Connect the power plug to the closest outlet possible to the printer.

Handling of Plastic Bags



WARNING Keep the plastic bags that are used with the printer away from children. The plastic may cling to their nose and mouth causing suffocation.

Precautions for Use

Cautions when Using the Printer

- **Do not** place metallic objects or containers with water (flower vases, flower pots, cups, etc.) on or near the printer. This type of situation presents a danger of fire or electrical shock should they fall inside.
- **Do not** remove any of the covers from the printer as there is a danger of electrical shock from high voltage parts inside the printer.
- **Do not** damage, break or attempt to repair the power cord. Do not place heavy objects on the cord, pull it, bend it unnecessarily or cause any other type of damage. These types of situations present a danger of fire or electrical shock.
- **Never** attempt to repair or disassemble the printer or its parts as there is a danger of fire, electrical shock or damage to the laser. If the laser beam escapes, there is a danger of it causing blindness.
- If the printer becomes excessively hot, smoke appears from the printer, there is an odd smell, or any other abnormal situation occurs, there is a danger of fire or electrical shock. Turn the power switch OFF (○) immediately, remove the power plug from the outlet and contact your service representative.
- If anything harmful (paper clips, water, other fluids, etc.) falls into the printer, turn the power switch OFF (○) immediately. Next, remove the power plug from the outlet to avoid the danger of fire or electrical shock. Then contact your service representative.
- **Do not** remove or connect the power plug with wet hands, as there is a danger of electrical shock.
- **Always** contact your service representative for maintenance or repair of internal parts.
- **Do not** pull the power cord when removing it from the outlet. If the power cord is pulled, the wires may become broken and there is a danger of fire or electrical shock. (Always grasp the power plug when removing the power cord from the outlet.)
- **Always** remove the power plug from the outlet when moving the printer. If the power cord is damaged, there is a danger of fire or electrical shock.
- If the printer will not be used for a short period of time (overnight, etc.), turn the power switch OFF (○). If it will not be used for an extended period of time (vacations, etc.), remove the power plug from the outlet for safety purposes during the time the printer is not in use.
- For safety purposes, **always** remove the power plug from the outlet when performing cleaning operations.
- If dust accumulates within the printer, there is a danger of fire or other trouble. It is therefore recommended that you consult with your service representative in regard to cleaning of internal parts. This is particularly effective if accomplished prior to seasons of high humidity. Consult with your service representative in regard to the cost of cleaning the internal parts of the printer.

Other Precautions

- **Do not** place heavy objects on the printer or cause other damage to the printer.
- **Do not** open the top/left/rear cover, turn off the main switch, or pull out the power plug during printing.
- During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the printer is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.
- **Do not** touch electrical parts, such as connectors or printed circuit boards. They could be damaged by static electricity.
- **Do not** attempt to perform any operations not explained in this handbook.
- If the printer will not be used for an extended period of time, remove the paper from the cassette, return it to its original package and reseal it.



CAUTION Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Cautions for Toner Handling

- **Do not** incinerate toner and toner containers. Dangerous sparks may cause burn.
- **Never** open the toner container.
- **Do not** inhale the toner.
- If you get toner on your hands, **do not** rub your eyes or touch your mouth. Wash the toner from your hands.
- For the disposal of the old toner container, consult your service technician or dispose of the toner or toner containers in accordance with Federal, State and Local rules and regulations.

About the Operation Guide

This Operation Guide has the following chapters:

Chapter 1 - Machine Parts

This chapter explains the names of parts.

Chapter 2 Handling Paper

Explains how choose, handle and load paper.

Chapter 3 - Printing Operation

This chapter explains how to print from your workstation.

Chapter 4 - Maintenance

This chapter explains how to replace the toner container and how to care for your printer.

Chapter 5 - Troubleshooting

This chapter explains how to handle printer problems that may occur, such as paper jams.

Chapter 6 Using the Operation Panel

Explains how to use the operation panel to configure the printer.

Chapter 7 Options

Shows the available options.

Chapter 8 Computer Interface

Describes the possible connections between the printer and your computer.

Chapter 9 - Specifications


This chapter lists the printer's specifications.

Glossary

A Glossary of terms used is provided here.

Conventions

This manual uses the following conventions.

Convention	Description	Example
Italic Typeface	Used to emphasize a key word, phrase or reference to additional information.	To replace the toner container, refer to <i>Toner Container Replacement on page 4-2</i> .
Bold	Used to denote buttons on the software.	To start printing, click OK .
Bracket Bold	Used to denote operation panel keys.	Press [GO] to resume printing.
Note	Used to provide additional or useful information about a function or feature.	 Note Check with your network administrator for the network address settings.
Important	Used to provide important information.	IMPORTANT Ensure paper is not folded, curled, or damaged.

Caution	Cautions are statements that suggest <i>mechanical</i> damage as a result of an action.	CAUTION Do not pull the cassette out when holding the front of the machine.
Warning	Used to alert users to the possibility of <i>personal</i> injury.	WARNING High voltage is present in the charger section.

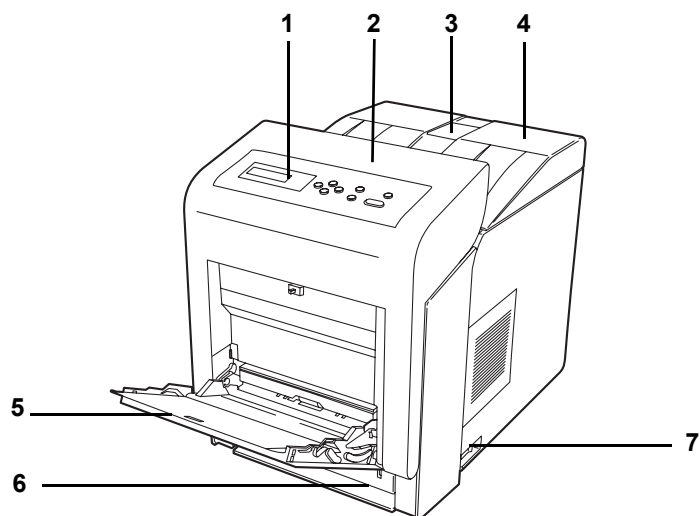
1 Machine Parts

This chapter provides explanations and illustrations for you to determine the parts and their functions. Try to be familiar with the names and functions of these parts for correct use and optimal performance.

This chapter contains explanations on the following topics:

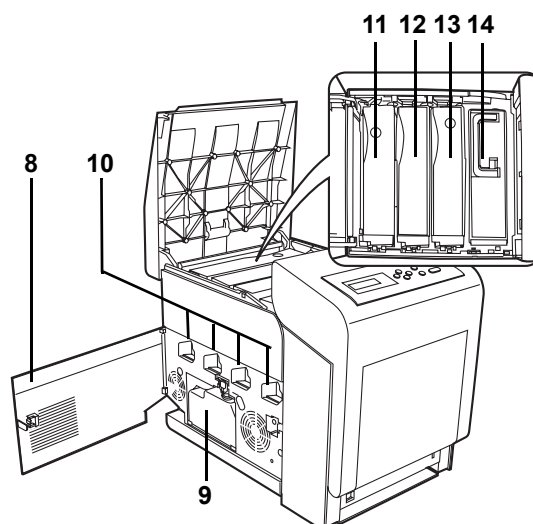
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Components at the Front of the Printer



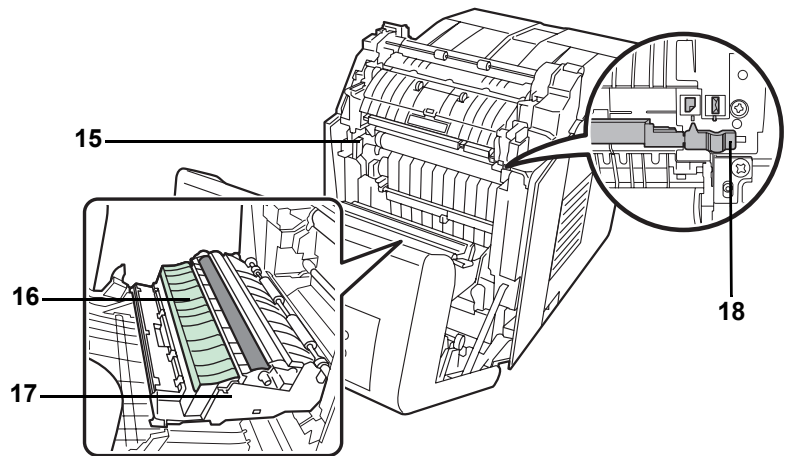
- 1 Operation Panel
- 2 Front Cover
- 3 Paper Stopper
- 4 Top Cover (Top Tray)
- 5 MP (Multi-Purpose) Tray
- 6 Paper Cassette
- 7 Power Switch

Components at the Left of the Printer



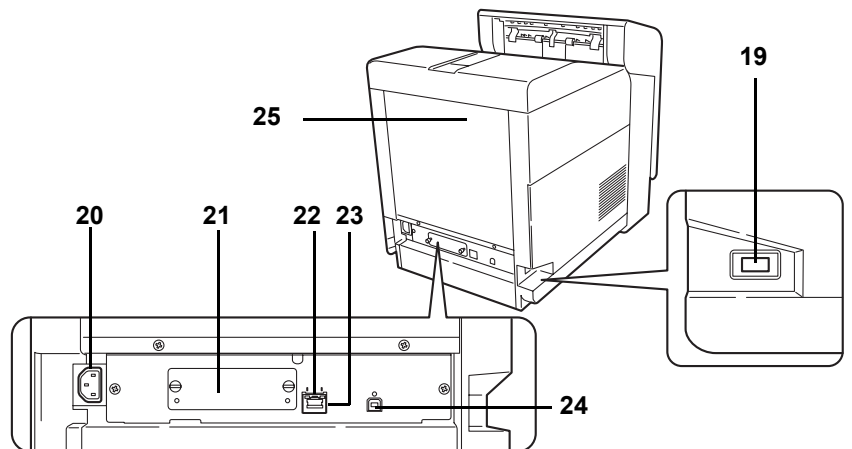
- 8 Left Cover
- 9 Waste Toner Box
- 10 Main Charger Units on the Drum Units
- 11 Magenta Toner Container (M)
- 12 Cyan Toner Container (C)
- 13 Yellow Toner Container (Y)
- 14 Black Toner Container (K)

Internal Components



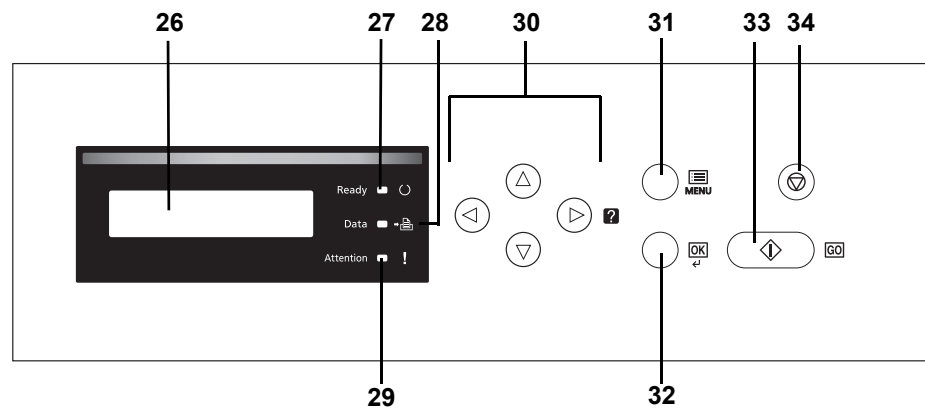
- 15 Paper Transfer Unit**
- 16 Paper Ramp**
- 17 Duplex Unit**
- 18 Envelope Switch**

Components at the Rear of the Printer



- 19 USB Memory Slot**
- 20 Power Cord Connector**
- 21 Option Interface Slot**
- 22 Network Indicators**
- 23 Network Interface Connector**
- 24 USB Interface Connector**
- 25 Rear Cover**

Operation Panel



- 26 Message Display
- 27 Ready Indicator
- 28 Data Indicator
- 29 Attention Indicator
- 30 Arrow Keys
- 31 [MENU] Key
- 32 [OK] Key
- 33 [GO] Key
- 34 [Cancel] Key

2 Handling Paper

This chapter contains explanations on the following topics:

General Guidelines	2-2
Selecting the Right Paper	2-4
Paper Type	2-13
Loading Paper	2-14

General Guidelines

The machine is designed to print on standard copier paper (the type used in ordinary dry copier machines), but it can also accept a variety of other types of paper within the limits specified below.



Note The manufacturer assumes no liability for problems that occur when paper not satisfying these requirements is used.

Selection of the right paper is important. Using the wrong paper can result in paper jams, curling, poor print quality, and paper waste, and in extreme cases can damage the machine. The guidelines given below will increase the productivity of your office by ensuring efficient, trouble-free printing and reducing wear and tear on the machine.

Paper Availability

Most types of paper are compatible with a variety of machines. Paper intended for xerographic copiers can also be used with the machine.

There are three general grades of paper: *economy*, *standard*, and *premium*. The most significant difference between grades is the ease with which they pass through the machine. This is affected by the *smoothness*, *size*, and *moisture content* of the paper, and the way in which the paper is cut. The higher the grade of paper you use, the less risk there will be of paper jams and other problems, and the higher the level of quality your printed output will reflect.

Differences between paper from different suppliers can also affect the machine's performance. A high-quality printer cannot produce high-quality results when the wrong paper is used. Low-priced paper is not economical in the long run if it causes printing problems.

Paper in each grade is available in a range of basis weights (defined later). The traditional standard weights are 60 to 120 g/m² (16 to 32 pounds).

Paper Specifications

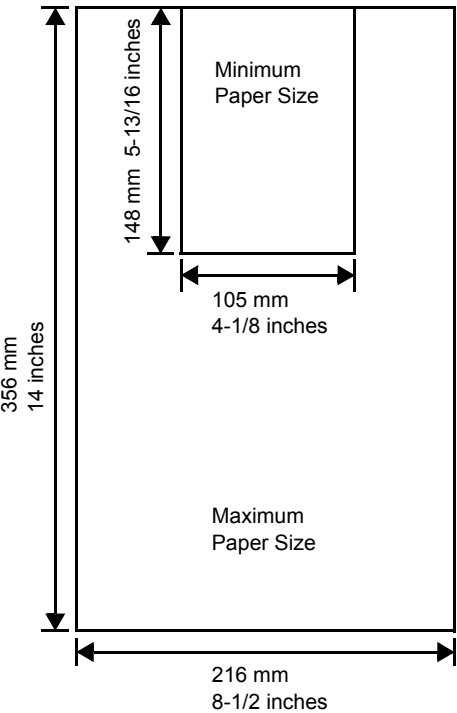
The following table summarizes the basic paper specifications. Details are given on the following pages.

Item	Specification
Weight	Cassette: 60 to 120 g/m ² (16 to 32 lb/ream) MP Tray: 60 to 220 g/m ² (16 to 59 lb/ream)
Thickness	0.086 to 0.110 mm (3.4 to 4.3 mils)
Dimensions	Refer to <i>Paper Sizes on page 2-4</i>
Dimensional accuracy	±0.7 mm (±0.0276 inches)
Squareness of corners	90° ±0.2°
Moisture content	4 % to 6 %
Direction of grain	Long grain
Pulp content	80 % or more

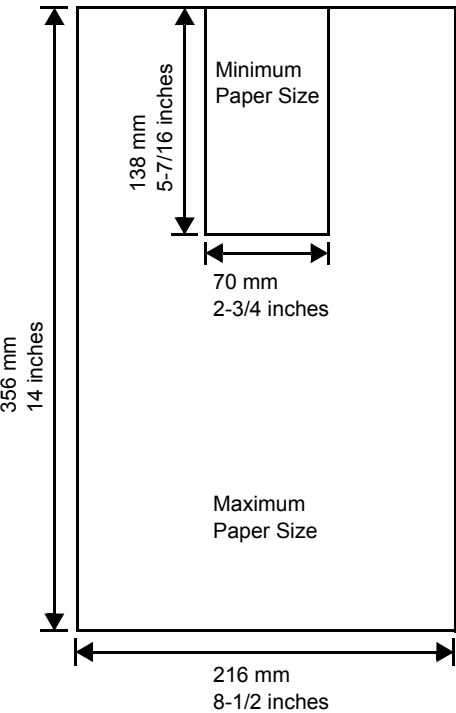
Minimum and Maximum Paper Sizes

The minimum and maximum paper sizes are as follows. For non standard paper such as transparency, labels, vellum, cardstock, envelope, coated and thick, the MP (Multi-Purpose) tray must be used.

Paper Cassette



MP Tray



Recommended Paper

The following products are recommended for use with the printer for optimum performance.

Size	Product	Weight
Letter, Legal	Hammermill LASER PRINT	90 g/m ² (24 lb)
A4	NEUSIEDLER COLOR COPY	90 g/m ²

Selecting the Right Paper

This section describes the guidelines for selecting paper.

Condition

Avoid using paper that is bent at the edges, curled, dirty, torn, embossed, or contaminated with lint, clay, or paper shreds.

Use of paper in these conditions can lead to illegible printing and paper jams, and can shorten the life of the machine. In particular, avoid using paper with a surface coating or other surface treatment. Paper should have as smooth and even a surface as possible.

Composition

Do not use paper that has been coated or surface-treated and contains plastic or carbon. The heat of fusing can cause such paper to give off harmful fumes.

Bond paper should contain at least 80 % pulp. Not more than 20 % of the total paper content should consist of cotton or other fibers.

Paper Sizes

Cassettes and the *MP tray* are available for the paper sizes listed in the table below. For details, including the paper sizes for the paper feeder (Optional paper feeder PF-500, PF-510) refer to *Cassette (1 to 4) Size (Setting the cassette paper size) on page 6-28*.

The dimensional tolerances are ± 0.7 mm (± 0.0276 inches) for the length and width. The angle at the corners must be $90^\circ \pm 0.2^\circ$.

MP Tray Only	Size	Cassette or MP Tray	Size
Env. Monarch	3-7/8 × 7-1/2 inches	Legal	8-1/2 × 14 inches
Envelope #10	4-1/8 × 9-1/2 inches	Letter	8-1/2 × 11 inches
Envelope #9	3-7/8 × 8-7/8 inches	ISO A4	210 × 297 mm
Envelope #6	3-5/8 × 6-1/2 inches	ISO A5	148 × 210 mm
Envelope DL	110 × 220 mm	ISO A6	105 × 148 mm
JIS B6	128 × 182 mm	Envelope C5	162 × 229 mm
Hagaki	100 × 148 mm	ISO B5	176 × 250 mm
OufukuHagaki	148 × 200 mm	JIS B5	182 × 257 mm
Youkei 2	114 × 162 mm	Statement	5-1/2 × 8-1/2 inches
Youkei 4	105 × 235 mm	Executive	7-1/4 × 10-1/2 inches
		Oficio II	8-1/2 × 13 inches
		Folio	210 × 330 mm
		16 kai	197 × 273 mm
Custom	Cassette: 105 to 216 mm × 148 to 356 mm (4-1/8 to 8-1/2 inches × 5-13/16 to 14 inches) MP Tray: 70 to 216 mm × 138 to 356 mm (2-3/4 to 8-1/2 inches × 5-7/16 to 14 inches)		

Smoothness

The paper should have a smooth, uncoated surface. Paper with a rough or sandy surface can cause voids in the printed output. Paper that is too smooth can cause multiple feeding and fogging problems. (Fogging is a gray background effect.)

Basis Weight

Basis weight is the weight of paper expressed in grams per square meter (g/m²). Paper that is too heavy or too light may cause feed errors or paper jams as well as premature wear of the product. Uneven weight of paper, namely uneven paper thickness may cause multiple-sheet feeding or print quality problems such as blurring because of poor toner fusing.

The recommended basis weight is between 60 and 120 g/m² (16 and 32 lb/ream) for the cassette and between 60 and 220 g/m² (16 and 59 lb/ream) for the MP tray.

Paper Weight Equivalence Table

The paper weight is listed in pounds (lb) and metric grams per square meter (g/m²). The shaded part indicates the standard weight.

U. S. Bond Weight (lb)	Europe Metric Weight (g/m ²)
16	60
17	64
20	75
21	80
22	81
24	90
27	100
28	105
32	120
34	128
36	135
39	148
42	157
43	163
47	176
53	199

Thickness

The paper used with the machine should be neither extremely thick nor extremely thin. If you are having problems with paper jams, multiple feeds, and faint printing, the paper you are using may be too thin. If you are having problems with paper jams and blurred printing the paper may be too thick. The correct thickness is 0.086 to 0.110 mm (3.4 to 4.3 mils).

Moisture Content

Moisture content is defined as the percent ratio of moisture to the dry mass of the paper. Moisture can affect the paper's appearance, feed ability, curl, electrostatic properties, and toner fusing characteristics.

The moisture content of the paper varies with the relative humidity in the room. When the relative humidity is high and the paper absorbs moisture, the paper edges expand, becoming wavy in appearance. When the relative humidity is low and the paper loses moisture, the edges shrink and tighten, and print contrast may suffer.

Wavy or tight edges can cause jams and alignment anomalies. The moisture content of the paper should be 4 to 6 %.

To ensure correct moisture content, it is important to store the paper in a controlled environment. Some tips on moisture control are:

- Store paper in a cool, dry location.
- Keep the paper in its wrapping as long as possible. Re-wrap paper that is not in use.
- Store paper in its original carton. Place a pallet etc. under the carton to separate it from the floor.
- After removing paper from storage, let it stand in the same room as the machine for 48 hours before use.
- Avoid leaving paper where it is exposed to heat, sunlight, or damp.



Note When using coated paper, be aware that the sheets will stick together in a very humid environment.

Paper Grain

When paper is manufactured, it is cut into sheets with the grain running parallel to the length (long grain) or parallel to the width (short grain). Short grain paper can cause feeding problems in the machine. All paper used in the machine should be long grain.

Other Paper Properties

Porosity: Indicates the density of paper fiber.

Stiffness: Limp paper may buckle in the machine, resulting in paper jams.

Curl: Most paper naturally tends to curl one way if left unpacked.

Electrostatic discharge: During the printing process the paper is electrostatically charged to attract the toner. The paper must be able to release this charge so that printed sheets do not cling together in the *Output Tray*.

Whiteness: The contrast of the printed page depends on the whiteness of the paper. Whiter paper provides a sharper, brighter appearance.

Quality control: Uneven sheet size, corners that are not square, ragged edges, welded (uncut) sheets, and crushed edges and corners can cause the machine to malfunction in various ways. A quality paper supplier should take considerable care to ensure that these problems do not occur.

Packaging: Paper should be packed in a sturdy carton to protect it from damage during transport. Quality paper obtained from a reputable supplier is usually correctly packaged.



Note You might see the printer emitting steam in the area around the top tray if you use damp paper, but it is safe to continue printing.

Special Paper

The following types of special paper can be used:

Paper Type to be Used	Paper Type to be Selected
Thin paper (60 to 64 g/m ²)	VELLUM
Thick paper (90 to 220 g/m ²)	THICK
Colored paper	COLOR
Recycled paper	RECYCLED
Overhead projector transparencies	TRANSPARENCY
Postcards	CARDSTOCK
Envelopes	ENVELOPE
Label	LABELS
Coated paper	COATED

Use paper that is sold specifically for use with copiers or printers (heat-fusing type). When using transparencies, labels, thin paper, envelopes, postcards, or thick paper, feed the paper from the *MP tray*. For details, refer to *Paper Source (Selecting the paper feed source)* on page 6-34.

Since the composition and quality of special paper vary considerably, special paper is more likely than white bond paper to give trouble during printing. No liability will be assumed if moisture and so forth given off during printing on special paper causes harm to the machine or operator.



Note Before purchasing any type of special paper, test a sample on the machine and check that printing quality is satisfactory.

Transparency

Transparencies must be able to withstand the heat of fusing during the printing process. The recommended transparency product is 3M CG3700 (Letter, A4).

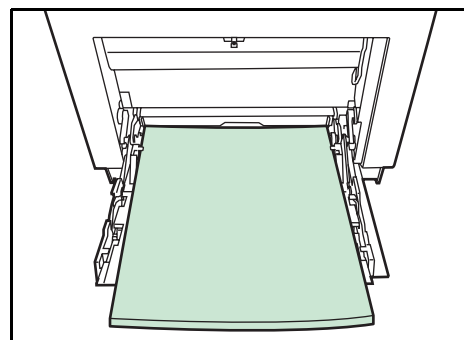
The table below lists the specifications for transparency:

Item	Specification
Tolerance of heat	Must tolerate at least 190 °C (374 °F)
Thickness	0.100 to 0.110 mm (3.9 to 4.3 mils)
Material	Polyester
Dimensional accuracy	±0.7 mm (±0.0276 inches)
Squareness of corners	90° ±0.2°

To prevent printing problems, feed transparencies into the printer one sheet at a time from the *MP tray*. Always load the transparencies vertically (with the long edge towards the printer).

If the transparencies have rough edges on the back, it may cause a paper jam. Remove the rough edges, reverse the sides or feed the sheet from the opposite edge.

When unloading transparencies (e.g., for clearing jams), hold them carefully by the edges to avoid leaving fingerprints on them.

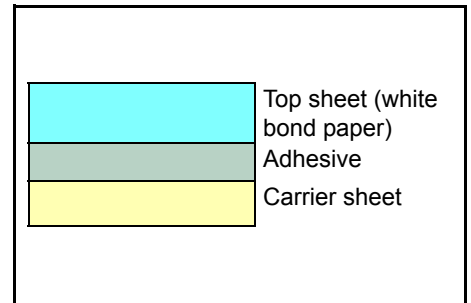


Labels

Labels must be fed from the *MP tray*.

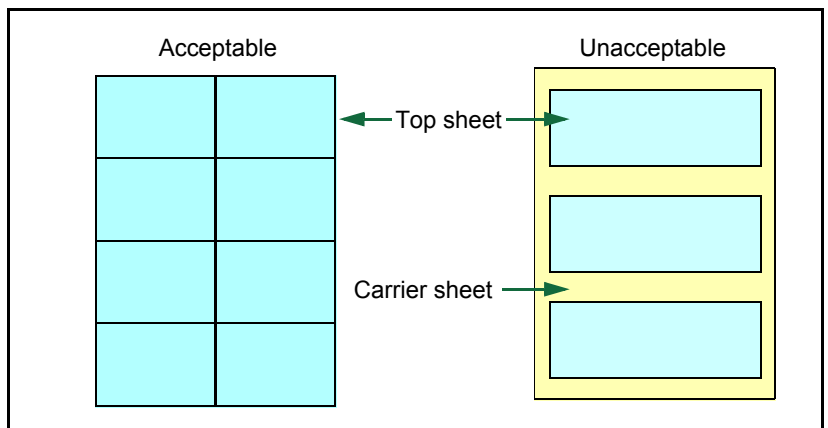
The basic rule for printing on adhesive labels is that the adhesive must never come into contact with any part of the machine. Adhesive paper sticking to the drum or rollers will damage the machine.

Label paper has a structure comprising of three layers, as shown in the diagram. The top sheet is printed on. The adhesive layer consists of pressure-sensitive adhesives. The carrier sheet (also called the linear or backing sheet) holds the labels until used. Due to the complexity of its composition, adhesive-backed label paper is particularly likely to give printing problems.



Adhesive label paper must be entirely covered by its top sheet, with no spaces between the individual labels. Labels with spaces in between are liable to peel off, causing serious paper jam problems.

Some label paper is manufactured with an extra margin of top sheet around the edge. Do not remove the extra top sheet from the carrier sheet until after printing is finished.



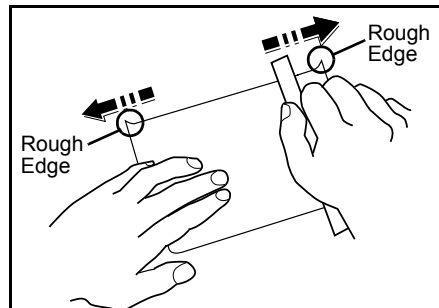
The table below lists the specifications for adhesive label paper.

Item	Specification
Weight of top sheet	44 to 74 g/m ² (12 to 20 lb/ream)
Composite weight	104 to 151 g/m ² (28 to 40 lb/ream)
Thickness of top sheet	0.086 to 0.107 mm (3.9 to 4.2 mils)
Composite thickness	0.115 to 0.145 mm (4.5 to 5.7 mils)
Moisture content	4 to 6 % (composite)

Postcards

Fan the stack of postcards and align the edges before loading them in the MP tray. Make sure the postcards you are going to set are not curled. Feeding curled postcards may cause paper jams.

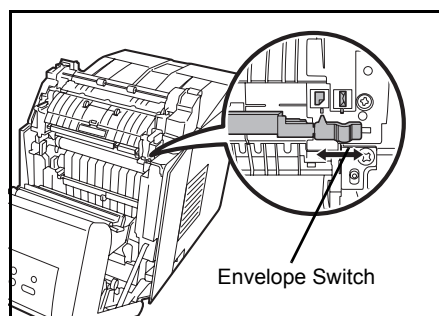
Some postcards have rough edges on the back (those are created when the paper is cut). In this case, put the postcards on a flat place and rub the edges with, for example, a ruler to smooth them.



Envelopes

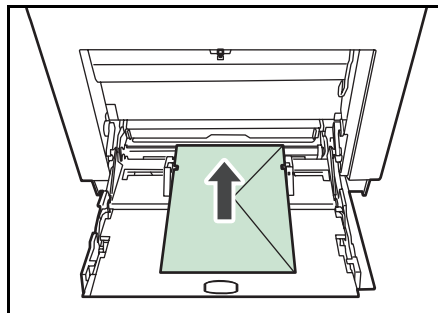
Slide the envelope switch to envelope mode and print.

IMPORTANT Envelopes cannot be printed in paper mode. When printing plain paper while the envelope mode is selected, the printing speed and quality will lower than in paper mode.



Envelopes should always be fed from the MP tray, with the print-side down.

Since the composition of an envelope is more complex than that of ordinary paper, it is not always possible to ensure consistent printing quality over the entire envelope surface.



Normally, envelopes have a diagonal grain direction. Refer to *Paper Grain* on page 2-6. This direction can easily cause wrinkles and creases when envelopes pass through the printer. Before purchasing envelopes, make a test print to check whether the printer accepts the envelope.

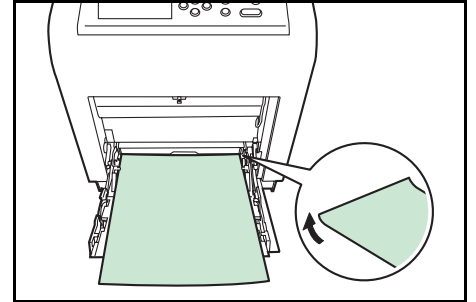
- Do not use envelopes that have an encapsulated liquid adhesive.
- Avoid a long printing session for envelopes only. Extended envelope printing can cause premature printer wear.
- If jams occur, try setting a lesser number of envelopes on the MP tray.
- To avoid jams caused by curled envelopes, stack no more than 10 printed envelopes on the top tray.

Thick Paper

Fan the stack of paper and align the edges before loading them in the MP tray. Some types of paper have rough edges on the back (those are created when the paper is cut). In this case, put the paper on a flat place and rub the edges once or twice with, for example, a ruler to smooth them. Feeding rough edged paper may cause paper jams.



Note If the paper jams even after you smooth it out, load the paper in the *MP tray* with the leading edge raised up a few millimeters as shown in the illustration.



Colored Paper

Colored paper should satisfy the same conditions as white bond paper, refer to *Paper Specifications on page 2-2*. In addition, the pigments used in the paper must be able to withstand the heat of fusing during the printing process (up to 200 °C or 392 °F).

Preprinted Paper

Preprinted paper should satisfy the same conditions as white bond paper, refer to *Paper Specifications on page 2-2*. The preprinted ink must be able to withstand the heat of fusing during the printing process, and must not be affected by silicone oil. Do not use paper with any kind of surface treatment, such as the type of paper commonly used for calendars.

Recycled Paper

Select recycled paper that meets the same specifications as the white bond paper except for whiteness, refer to *Paper Specifications on page 2-2*.



Note Before purchasing recycled paper, test a sample on the machine and check that the printing quality is satisfactory.

Coated Paper

Coated paper is created by treating the surface of the base paper with a coating that provides higher printing quality than plain paper. Coated paper is used for particularly high quality printing.

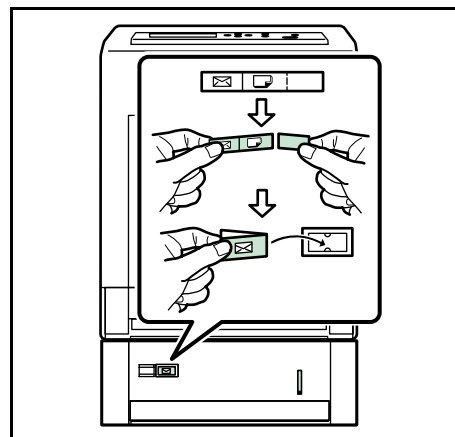
The surface of high-quality or medium-quality paper is coated with special agents that improve ink coverage by making the paper surface smoother. These agents are used either to coat both sides of the paper or just one side. The coated side appears slightly glossy.

IMPORTANT When printing on coated paper in very humid environments, ensure that the paper is kept dry as moisture may cause sheets to stick together when they are fed into the printer.

Paper Type Indicators (Optional paper feeder PF-510)

If you are going to load non standard paper in the optional paper feeder PF-510, cut out the blank section of the attached paper type indicator sheet, fold the remaining sheet in half and insert it into the cassette's display folder so that the paper type symbol is displayed.

-  Envelopes
-  Thick paper
-  Labels
-  Coated paper



Paper Type

The printer is capable of printing under the optimum setting for the type of paper being used.

Setting the paper type for the paper source from the printer's operation panel will cause the printer to automatically select the paper source and print in the mode best suited to that type of paper.

A different paper type setting can be made for each paper source including the MP tray. Not only can preset paper types be selected, but it is also possible for you to define and select customized paper types. Refer to *Type Adjust (Creating custom paper type)* on page 6-32. The following types of paper can be used.

Paper Type	Paper Source				
	MP Tray	Paper Cassette Optional Paper Feeder PF-500	Paper Weight	Duplex Path	Optional Paper Feeder PF-510
PLAIN	Yes	Yes	Normal 2	Yes	Yes
TRANSPARENCY	Yes	No	Extra Heavy	No	No
PREPRINTED	Yes	Yes	Normal 2	Yes	Yes
LABELS	Yes	No	Heavy 1	No	Yes
BOND	Yes	Yes	Normal 3	Yes	Yes
RECYCLED	Yes	Yes	Normal 2	Yes	Yes
VELLUM	Yes	No	Light	No	No
ROUGH	Yes	Yes	Normal 3	Yes	Yes
LETTERHEAD	Yes	Yes	Normal 2	Yes	Yes
COLOR	Yes	Yes	Normal 2	Yes	Yes
PREPUNCHED	Yes	Yes	Normal 2	Yes	Yes
ENVELOPE	Yes	No	Heavy 2	No	Yes
CARDSTOCK	Yes	No	Heavy 1	No	Yes
COATED	Yes	No	Heavy 1	Yes	Yes
THICK	Yes	No	Heavy 2	No	Yes
HIGH QUALITY	Yes	Yes	Normal 3	Yes	Yes
CUSTOM 1 (to 8) [†]	Yes	Yes	Normal 2	Yes	Yes

Yes: Can be stored No: Cannot be stored

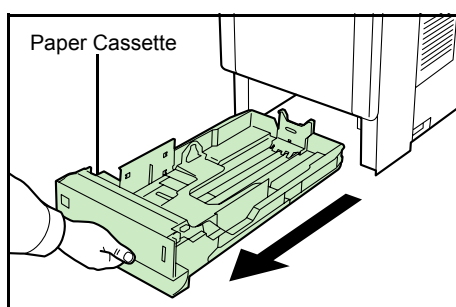
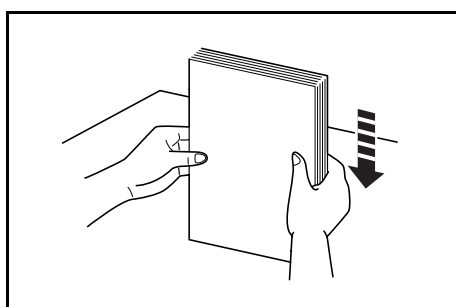
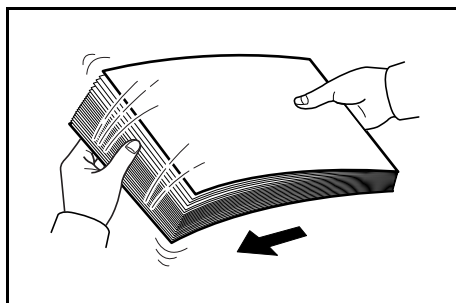
[†]. This is a paper type defined and registered by the user. Up to eight types of user settings may be defined. For details, refer to *Type Adjust (Creating custom paper type)* on page 6-32.

Loading Paper

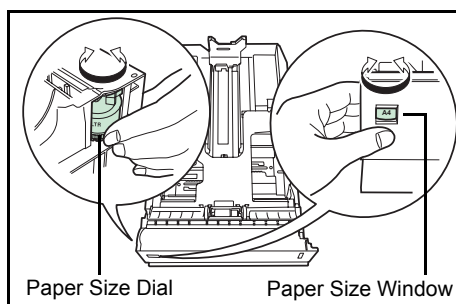
The following explains the procedure for loading paper in the cassette and the MP tray.

Loading Paper into the Cassette

- 1 Fan the media (paper/transparencies), then tap it on a level surface to avoid media jams or skewed printing.



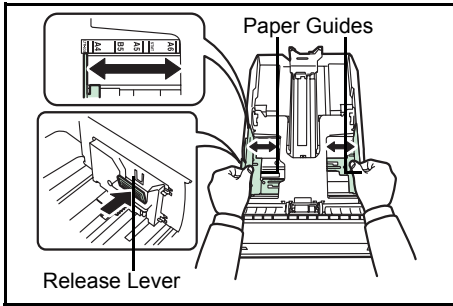
- 2 Pull the paper cassette all the way out of the printer.



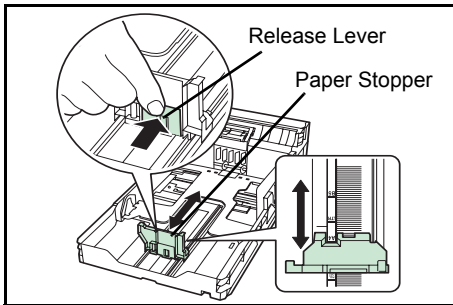
- 3 Turn the paper size dial so that the size of the paper you are going to use appears in the paper size window.



Note When the paper size dial is set to **Other** the paper size must be set into the printer on the operation panel. Refer to *Cassette (1 to 4) Size (Setting the cassette paper size)* on page 6-28.

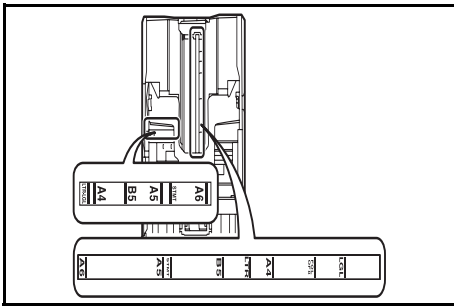


- 4 Pull the release lever of both side guides and slide to the desired paper size.

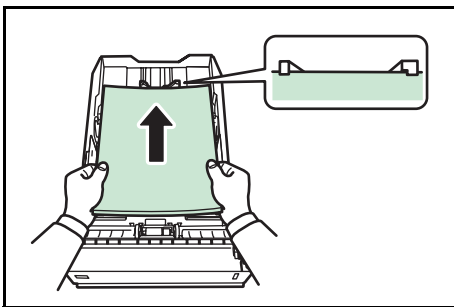


- 5 Pull the release lever and slide the paper stopper to the desired paper size.

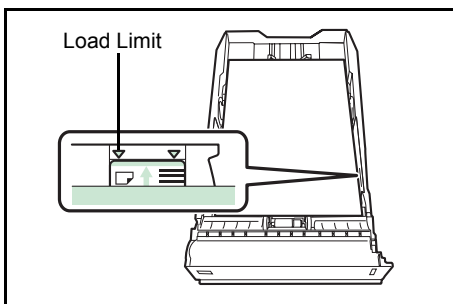
When using non-standard size paper, move the paper guides and paper stopper all the way out, insert the paper, then adjust the paper guides and paper stopper to the size of the paper. Adjust them so that they are in light contact with the paper.



Standard paper sizes are marked on the inside of the paper cassette.

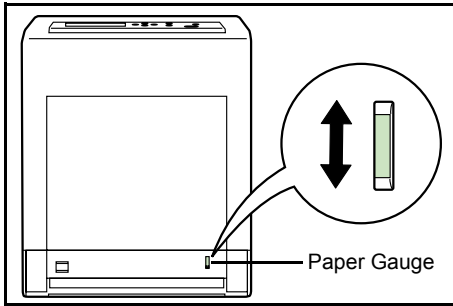


- 6 Slide the paper into the paper cassette.




Note Do not load more paper than will fit under the load limits on the paper guides.

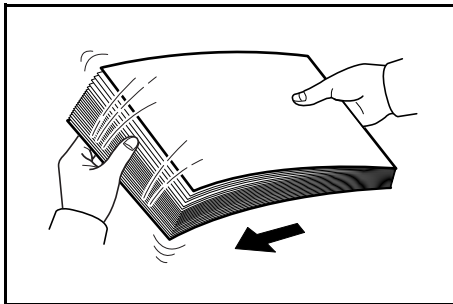
The paper cassette will hold approximately 500 sheets of 80 g/m² (21 lb.) paper with a thickness of 0.11 mm. (The FS-C5100DN will hold approximately 250 sheets of paper with a thickness of 0.11 mm/sheet.)



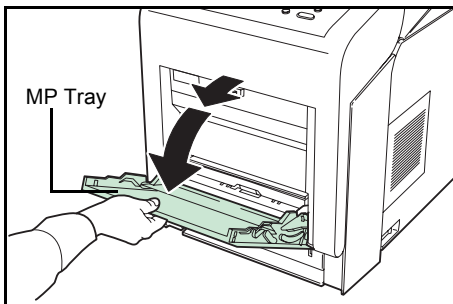
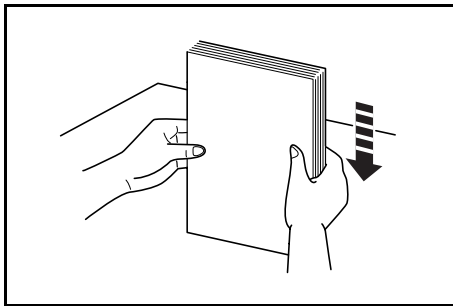
- 7 Insert the paper cassette into the slot in the printer. Push it straight in as far as it will go.

There is a paper gauge on the right side of the front of the paper cassette to indicate the remaining paper supply. When paper is exhausted, the pointer will go down to the level of  (empty).

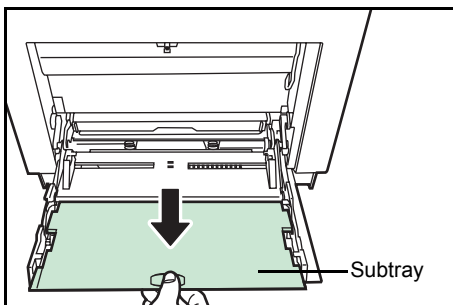
Loading Paper into the MP (Multi-Purpose) Tray



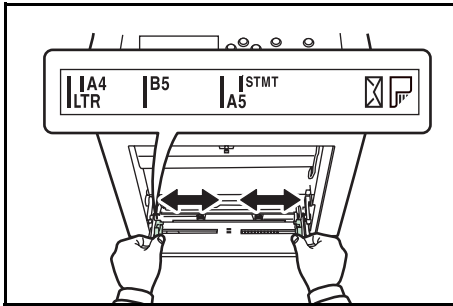
- 1 Fan the media (paper/transparencies), then tap it on a level surface to avoid media jams or skewed printing.



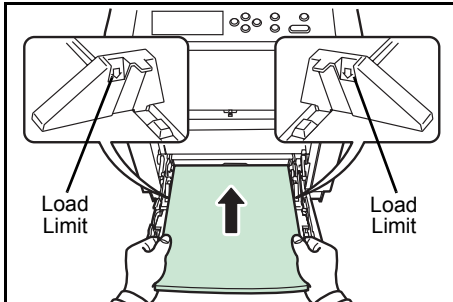
- 2 Press the center of the MP tray, and pull it towards you until it stops.



- 3 Pull the subtray toward you until it stops, making sure there are no gaps.



- 4 Adjust the position of the paper guides on the MP tray. Standard paper sizes are marked on the MP tray. For standard paper sizes, slide the guides to the position marked correspondingly.

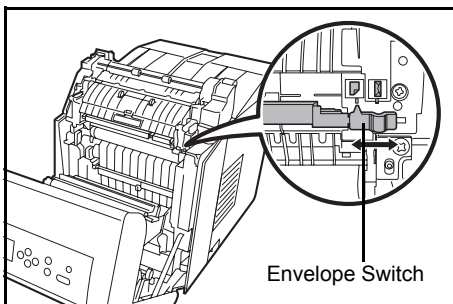


- 5 Align the paper with the paper guides and insert as far as it will go.



Note Do not load more paper than will fit under the load limits on the inside of the MP tray.
When printing on transparencies, feed the sheets into the printer one at a time.
If the paper is considerably curled in one direction, for example, if the paper is already printed on one side, try to roll the paper in the opposite direction to counteract the curl.
Printed sheets will then come out flat.

Correct		
Incorrect		



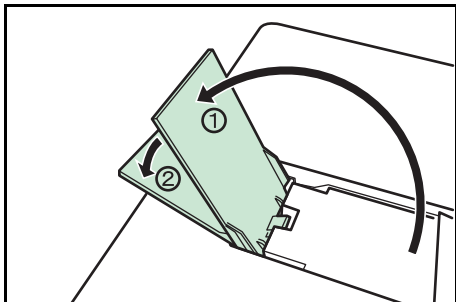
- 6 Set the MP tray paper size on the printer's operation panel. Refer to *MP Tray Size (Setting MP tray paper size)* on page 6-26.

- 7 Set the appropriate print mode for the paper thickness (envelopes or plain paper). To print on envelopes, slide the envelope switch to the right to select envelope mode. To print on plain paper, slide the switch to the left to select paper mode.

The print modes are imprinted on the switch. Check that the correct mode is selected for the paper being used.

IMPORTANT Envelopes cannot be printed in paper mode. When printing plain paper while the envelope mode is selected, the printing speed and quality will lower than in paper mode.

Paper stopper



Align the paper stopper to the desired paper size.

- For A4 or Letter size paper : Align with position ①.
- For Legal size paper : Align with position ②.

3 Printing Operation

This chapter contains explanations on the following topics:

Changing Network Interface Parameters	3-2
Printing a Network Interface Status Page	3-10
Installing the Printer Driver	3-11
Printing from Application Software	3-17

Changing Network Interface Parameters

This printer supports TCP/IP, TCP/IP (IPv6), NetWare, AppleTalk, IPP, SSL Server, IPSec protocols and Security Level. (For details refer to *Advanced Operation Guide*.)



Note After all network related settings have been done, turn the machine OFF and ON again.

This is mandatory to make the settings effective!

TCP/IP, TCP/IP (IPv6) settings

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Network >` appears.

```
Network >
```

- 3 Press \triangleright . Each time you press Δ or ∇ , the selection changes. Refer to the explanations below when specifying the settings.

```
>TCP/IP >  
Off
```

Set this item to `On` when you connect to a network using `TCP/IP`. Submenu has items including `DHCP`, `IP Address`, `Subnet Mask`, `Gateway` and `Bonjour`.



```
>TCP/IP (IPv6) >  
Off
```

Set this item to `On` when you connect to a network using `TCP/IP (IPv6)`. Submenu has items including `RA (Stateless)` and `DHCPv6`.

TCP/IP

This section describes how to enable the TCP/IP protocol.

```
>TCP/IP      >
  On
```

- 1 If TCP/IP is set to Off, use Δ or ∇ to select On and press **[OK]**.

```
>>DHCP
  Off
```

- 2 Press \triangleright . Each time you press Δ or ∇ , the selection changes.

\downarrow \uparrow

```
>>IP Address
  000.000.000.000
```

\downarrow \uparrow

```
>>Subnet Mask
  000.000.000.000
```

\downarrow \uparrow

```
>>Gateway
  000.000.000.000
```

\downarrow \uparrow

```
>>Bonjour
  Off
```

\downarrow \uparrow

```
>>Subnet Mask
  000.000.000.000
```

- 3 Display the item you want to set and press **[OK]**. A blinking question mark (?) appears while you are setting DHCP and Bonjour. A blinking cursor () appears while you are setting IP Address, Subnet Mask and Gateway.
- 4 Press Δ or ∇ to select On or Off as the setting for DHCP and Bonjour.

For the IP Address, Subnet Mask and Gateway settings, press Δ or ∇ to move the blinking cursor to the number you want to change (000 to 255). Use \triangleleft and \triangleright to move the cursor right and left.



Note Check with your network administrator for the network address settings.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

TCP/IP (IPv6)



This section describes how to enable the TCP/IP (IPv6) protocol.

>TCP/IP (IPv6) >
On

- 1 If **TCP/IP (IPv6)** is set to **Off**, use Δ or ∇ to select **On** and press **[OK]**.



>>RA (Stateless)
Off

- 2 Press \triangleright . Each time you press Δ or ∇ , the selection changes.

 
>>DHCPv6
Off

>>RA (Stateless)
?Off

- 3 Display the item you want to set and press **[OK]**. A blinking question mark (?) appears while you are setting **RA (Stateless)** and **DHCPv6**.

 
>>DHCPv6
?Off

- 4 Press Δ or ∇ to select **On** or **Off** as the setting for **RA (Stateless)** and **DHCPv6**.



Note Check with your network administrator for the network address settings.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

NetWare, AppleTalk, IPP, SSL Server, IPSec and Security Level settings

Security >

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until **Security >** appears.

- 3 Press \triangleright . Each time you press \triangle or ∇ , the selection changes. Refer to the explanations below when specifying the settings.

ID
—



Password
—



If you are using NetWare, AppleTalk, IPP, SSL Server or IPsec to connect to a network, you must enter an administrator ID. By default, the administrator ID is the numeric part of your printer's model name. If you use CLP 4626, enter "5300".

If you are using NetWare, AppleTalk, IPP, SSL Server or IPsec to connect to a network, you must enter an administrator password. By default, the administrator password is the numeric part of your printer's model name. If you use CLP 4626, enter "5300".



>NetWare >
On



Set this item to On when you connect to a network using NetWare. In submenu, frame mode can be selected from Auto, 802.3, Ethernet-II, SNAP and 802.2.

>AppleTalk
On



AppleTalk must be activated (On) for networking with Macintosh computers.

>IPP
Off



Set this item to On when you connect to a network using IPP.

>SSL Server >
Off



Set this item to On when you connect to a network using SSL Server. Submenu has items including DES, 3DES, AES, IPP over SSL and HTTPS.

>IPSec
Off

Set this item to On when you connect to a network using IPsec.

Continued on next page.



```
>Security Level
  High
```

Set the Security Level to High.

NetWare

This section explains the procedure for enabling NetWare.

```
>NetWare      >
  On
```

1 Enter the administrator ID and password. Then, if NetWare is set to Off, use Δ or ∇ to select On and press **[OK]**.

```
>>Frame Type
  Auto
```

2 Press \triangleright .

```
>>Frame Type
?Auto
```

3 Press **[OK]**. A blinking question mark (?) appears. Each time you press Δ or ∇ , the selection changes.



```
>>Frame Type
?802.3
```



```
>>Frame Type
?Ethernet-II
```



```
>>Frame Type
?SNAP
```



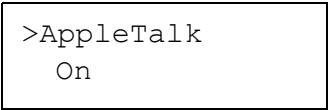
```
>>Frame Type
?802.2
```

4 Display the item you want to set and press **[OK]**.

5 Press **[MENU]**. The display returns to Ready.

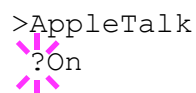
AppleTalk

This section explains the procedure for enabling AppleTalk.



>AppleTalk
On

- 1 Enter the administrator ID and password. Then, if AppleTalk is set to Off, use \triangle or ∇ to select On.



>AppleTalk
?On

- 2 Press **[OK]**. A blinking question mark (?) appears.

- 3 Press **[OK]** again.

- 4 Press **[MENU]**. The display returns to Ready.

IPP

This section explains the procedure for enabling IPP.



>IPP
On

- 1 Enter the administrator ID and password. Then, if IPP is set to Off, use \triangle or ∇ to select On.



>IPP
?On

- 2 Press **[OK]**. A blinking question mark (?) appears.

- 3 Press **[OK]** again.

- 4 Press **[MENU]**. The display returns to Ready.

SSL Server



This section explains the procedure for enabling SSL Server.

```
>SSL Server >  
On
```



- 1 Enter the administrator ID and password. Then, if `SSL Server` is set to `Off`, use Δ or ∇ to select `On` and press **[OK]**.

```
>>DES  
Off
```



- 2 Press \triangleright . Each time you press Δ or ∇ , the selection changes.



```
>>3DES  
Off
```

```
>>AES  
Off
```

```
>>IPP over SSL  
Off
```

```
>>HTTPS  
Off
```

```
>>DES  
?Off
```

- 3 Display the item you want to set and press **[OK]**. A blinking question mark (?) appears.

- 4 Select `On` or `Off` using Δ or ∇ .

- 5 Press **[OK]**.

- 6 Press **[MENU]**. The display returns to `Ready`.

IPSec

This section explains the procedure for enabling IPSec.

```
>IPSec  
On
```

- 1 Enter the administrator ID and password. Then, if `IPSec` is set to `Off`, use Δ or ∇ to select `On`.

```
>IPSec  
?On
```

- 2 Press **[OK]**. A blinking question mark (?) appears.

- 3 Press **[OK]** again.

- 4 Press **[Menu]**. The display returns to `Ready`.

Security Level

>Security Level High

Security Level is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

Printing a Network Interface Status Page

You can print out a status page for the network interface. The network status page shows the network addresses, and other information under various network protocols about the network interface.

Adjust/Maintenance

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Color Calibration
- Registration Normal
- Registration Details
- Restart Printer
- Service

IMPORTANT *Service* is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Adjust/Maintenance >` appears.

`Adjust/
Maintenance >`

- 3 Press \triangleright while `Adjust/Maintenance >` is displayed.
- 4 Press Δ or ∇ repeatedly until `>Service >` appears.
- 5 Press \triangleright .
- 6 Press Δ or ∇ repeatedly until `>>Print Network Status Page` appears.
- 7 Press **[OK]**. A question mark (?) appears.

`>>Print Network
Status Page ?`


- 8 Press **[OK]**. `Processing` appears and a status page is printed out.
- 9 When printing ends, the display returns to `Ready`.

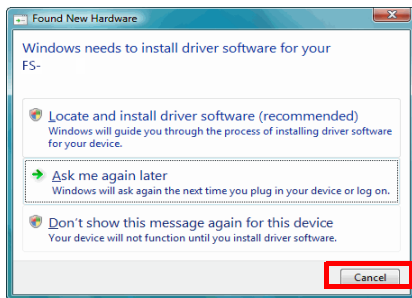
Installing the Printer Driver

Ensure the printer is plugged in and connected to the PC before installing the printer driver from the CD-ROM.

Installing the Software in Windows

If you are connecting this printer to a Windows PC, follow the next steps to install the printer driver. The example shows you how to connect your printer to a Windows Vista PC.

 **Note** In Windows Vista, Windows XP and Windows 2000, you must be logged on with administrator privileges.




You can use either Express Mode or Custom Mode to install the software. Express Mode automatically detects connected printers and installs the required software. Use Custom Mode if you want to specify the printer port and select the software to be installed.

- 1 Turn on the computer and start up Windows.

If the Welcome to the Found New Hardware Wizard dialog box displays, select **Cancel**.

- 2 Insert the CD-ROM supplied with the printer into the optical drive of the PC. In Windows Vista, the user account management window appears. Click **Allow**.

The installation program launches.

 **Note** If the software install wizard does not launch automatically, open the CD-ROM window in Windows Explorer and double-click **Setup.exe**.



- 3 Click **View License Agreement** and read the License Agreement. Click **Accept**.



- 4 Click **Install software**.

The software install wizard starts up. Click **Next**.

From this point, the procedure differs depending on your version of Windows and your connection method. Proceed to the correct procedure for your connection type.

- Express Mode
- Custom Mode

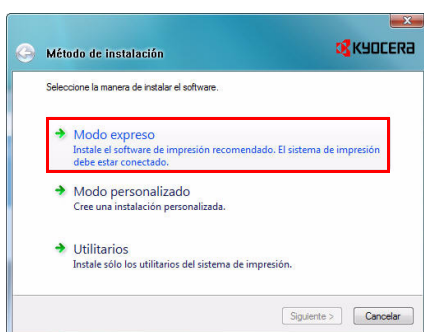
Express Mode

In Express Mode, the installer automatically detects the printer when it is turned on. Use Express Mode for standard connection methods.

- 1 In the installation method selection window, select **Express Mode**. The print system detection window appears and the installer detects the connected printers. If the installer does not detect a print system, check that the print system is connected via USB or a network and that it is turned on. Then return to the print system detection window.



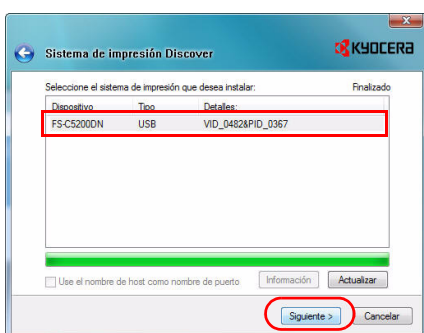
Note While the information shown in Windows Vista and Windows XP installation dialog boxes differs slightly, the installation procedure is the same.



- 2 Select the print system to be installed and click **Next**.

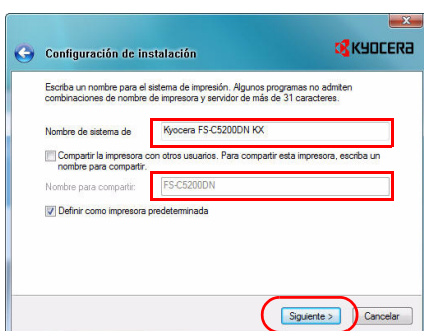


Note If the Found New Hardware Wizard appears, click **Cancel**. If a hardware installation warning message appears, click **Continue**.



- 3 You can customize the print system name in the installation settings window. This will be the name displayed in the Printer window and in the printer lists displayed in applications. Specify whether to share the print system name or set the print system as an existing printer and then click **Next**.

IMPORTANT Step 3 only appears if the print system is connected via a network. It does not appear if the print system is connected via a USB.



- 4 A window appears in which you can check the settings. Check the settings carefully and then click **Install**.



Note If the Windows security window appears, click **Install this driver software**.

- 5 A message appears saying that the printer has been installed successfully. Click **Exit** to exit the printer installation wizard and return the CD-ROM main menu.

If the device setup dialog box appears after you click **Exit**, you can specify the settings for items such as optional features installed in the print system. You can also specify the device settings after you exit the installation. For details, refer to *Device Settings* in the printer driver operation manual on the CD-ROM.

This completes the printer driver installation procedure. Follow the on-screen instructions to restart the system, if required.

Custom Mode

Use Custom Mode if you want to specify the printer port and select the software to be installed.

For example, if you do not want fonts installed on your computer to be replaced, select **Custom Mode** and deselect the **Fonts** checkbox in the installation window.

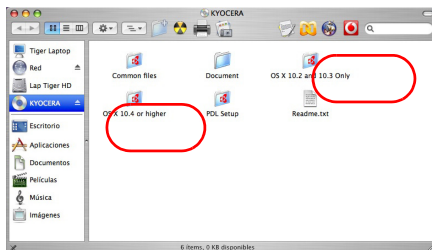
- 1 Select **Custom Mode**.



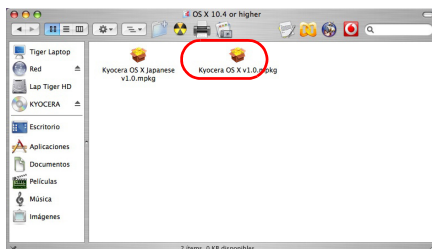
- 2 Following the instructions in the install wizard window, select the software packages to be installed and specify the port, etc.
For details, refer to *Custom Installation* in the printer driver operation manual on the CD-ROM.

Installation on a Macintosh

- 1 Turn on the printer and the Macintosh.
- 2 Insert the included CD-ROM (**Product Library**) into the CD-ROM drive.
- 3 Double-click the CD-ROM icon.
- 4 Double-click either **OS X 10.2 and 10.3 Only** or **OS X 10.4 or higher** depending on your Mac OS version.



- 5 Double-click **OS X x.x**.





6 The printer driver installation program starts up.

7 Choose **Select Destination**, **Installation Type** and then install the printer driver as directed by the instructions in the installation software.

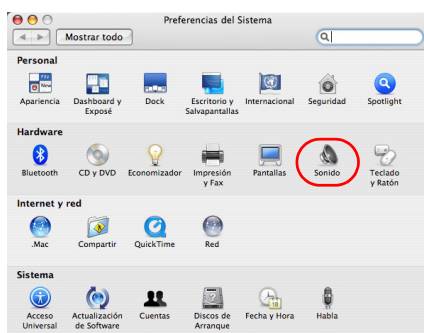


Note In addition to **Easy Install**, the **Installation Type** options include **Custom Install**, which allows you to specify the components to be installed.

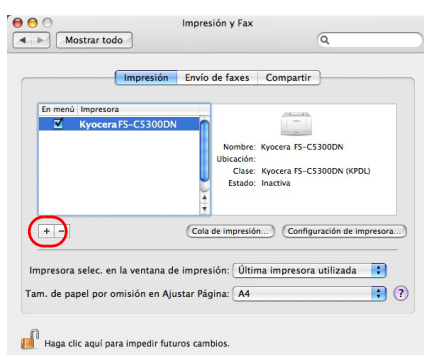
IMPORTANT In the Authenticate screen, enter the name and password used to log in to the operating system.

This completes the printer driver installation. Next, specify the print settings.

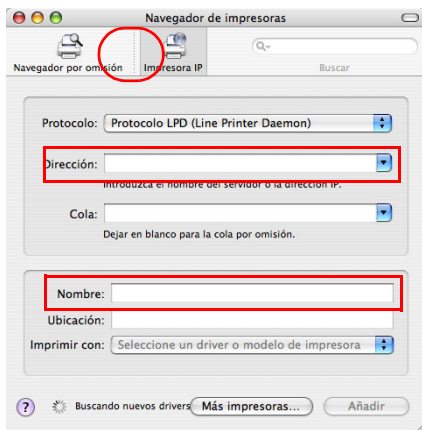
If an IP or AppleTalk connection is used, the settings below are required. If a USB connection is used, the printer is automatically recognized and connected.



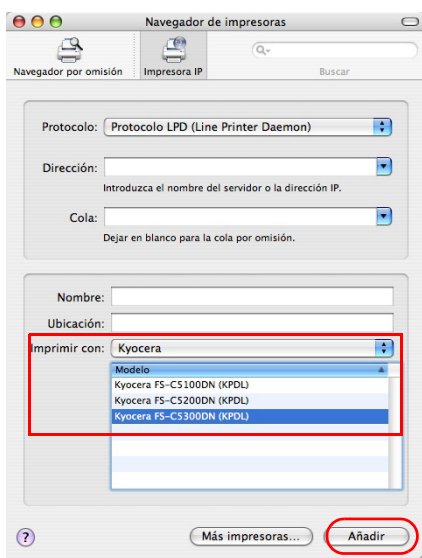
8 Open **System Preferences** and click **Print & Fax**.



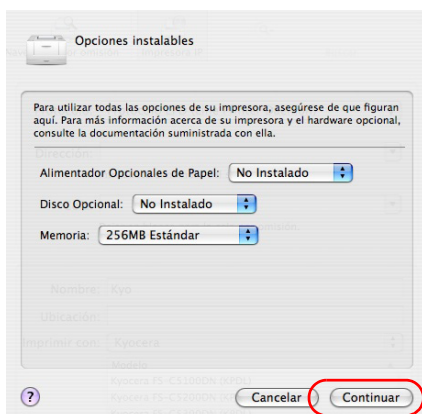
9 Click the plus symbol (+) to add the installed printer driver.



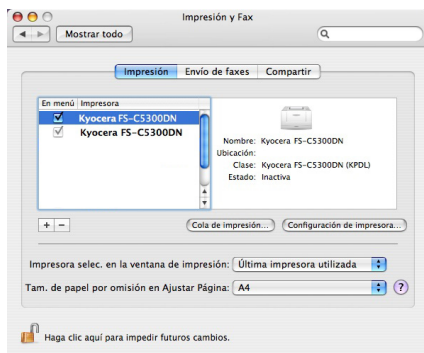
10 Click the IP icon for an IP connection or the AppleTalk icon for an AppleTalk connection and then enter the IP address and printer name.



11 Select the installed printer driver and click **Add**.



12 Select the options available for the printer and click **Continue**.



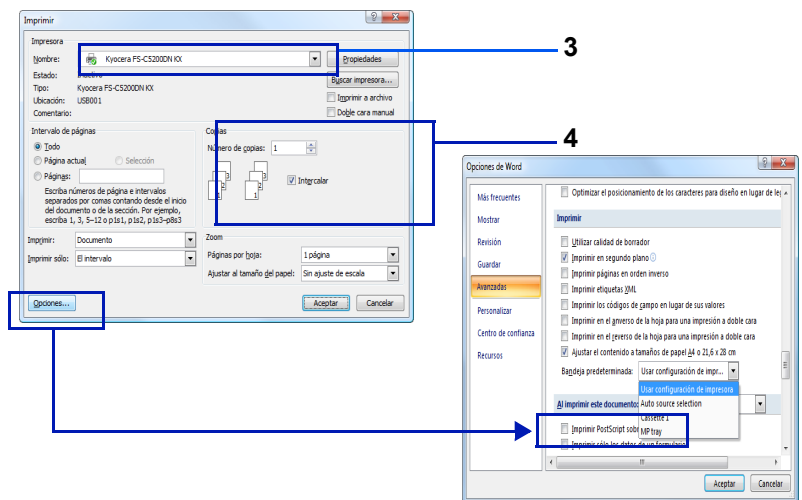
13 The selected printer is added. This completes the printer setup procedure.

Printing from Application Software

The steps required to print a document created with an application are explained below. You can select the printing Paper Size and Output Destination.

- 1 Load the paper required into the paper cassette.
- 2 From the application File menu, select **Print**. The Print dialog box displays.
- 3 Click the drop down list of printer names. All the printers installed in Windows are listed. Click the name of the machine.
- 4 Use **Number of copies** to enter the number of prints required. Up to 999 copies can be entered.

For Microsoft Word, we recommend that you click **Options** and specify **Use printer settings** for the **Default tray**.



- 5 To start printing, click **OK**.



Note For information on how to use the printer driver software, refer to *KX Printer Driver User Guide*.

Status Monitor

The Status Monitor monitors the printer status and provides an ongoing reporting function. It also allows you to specify and modify settings for printers not included in the KX driver.

The Status Monitor is installed automatically during KX driver installation.

Accessing the Status Monitor

Use either of the methods listed below to launch the Status Monitor.

- Launch when printing starts:
When you specify a printer and start a print job, one Status Monitor is launched for each printer name. If Status Monitor startup is requested from multiple printers, Status Monitors are launched for each printer that issues the request.
- Launch from the KX driver properties:
Click the About button in the KX driver Properties dialog box. Then click **Status Monitor** in the About dialog box to launch the Status Monitor.

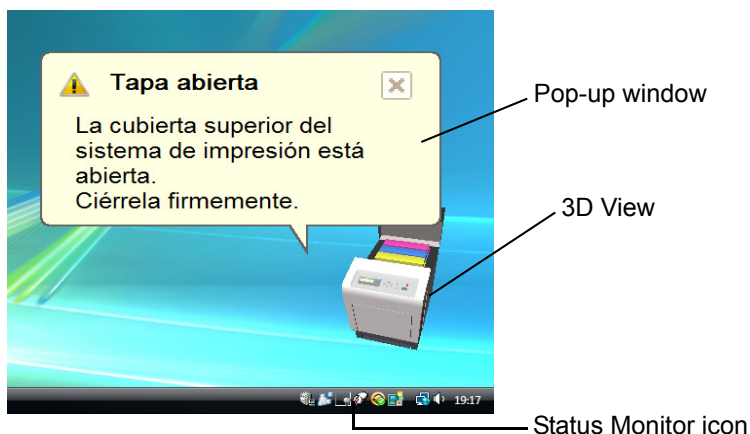
Exiting the Status Monitor

Use either of the methods listed below to exit the Status Monitor.

- Exit manually:
Right-click the Status Monitor icon in the taskbar and select **Exit** in the menu to exit the Status Monitor.
- Exit automatically:
The Status Monitor automatically shuts down after 5 minutes if it is not being used.

Screen Overview

The screen overview of the Status Monitor is as follows.



Pop-up window

If an information notification event occurs, a pop-up window appears. This window only appears when the 3D View is open on the desktop.

3D View

This shows the status of the monitored printer as a 3D image. You can choose whether to show or hide the 3D view from the menu displayed when you right-click the Status Monitor icon.

If an information notification event occurs, the 3D view and an alert sound are used to notify you. For information on the sound notification settings, refer to *Status Monitor Settings on page 3-20*.

Status Monitor icon

While the **Status Monitor** is running, its icon is displayed in the taskbar notification area. When you position the cursor over the icon, the printer name appears. Right-clicking the **Status Monitor icon** allows you to set the options below.

Show the status monitor

Displays or hides the **Status Monitor icon**.

Configure...

If the printer is connected to a TCP/IP network and has its own IP address, use a web browser to access the COMMAND CENTER to modify or confirm the network settings. For more information, refer to the *COMMAND CENTER Operation Guide*.

Preferences...

Specify the **Sound Notification** and **Appearance** settings for the Status Monitor. For details, refer to *Status Monitor Settings on page 3-20*.

Exit

Exits the **Status Monitor**.

Status Monitor Settings

Use the **Preference** option to set up the Status Monitor. The Status Monitor has two tabs to configure its settings.

Sound Notification Tab

The Sound Notification tab contains the following items.

IMPORTANT To confirm the settings on Sound Notification tab, the computer requires the sound capabilities such as sound card and speaker.

Enable Event Notification

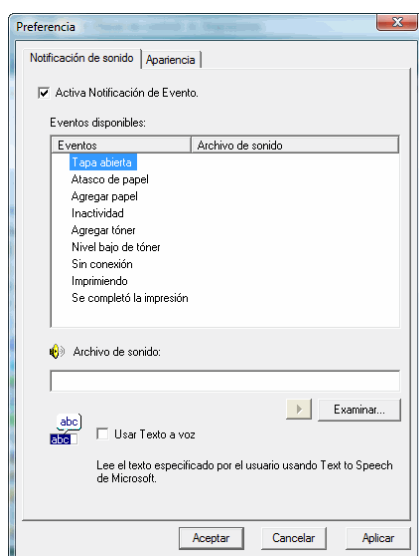
Select to enable or disable monitoring the events in Available events.

Sound file

A sound file can be selected if you require an audible notification. Click **Browse** to search for the sound file.

Use Text to speech

Select this check box to enter text you would like to hear played for events. Although a sound file is unnecessary, this function is applicable for Windows XP or later.



To use this function, follow these steps.

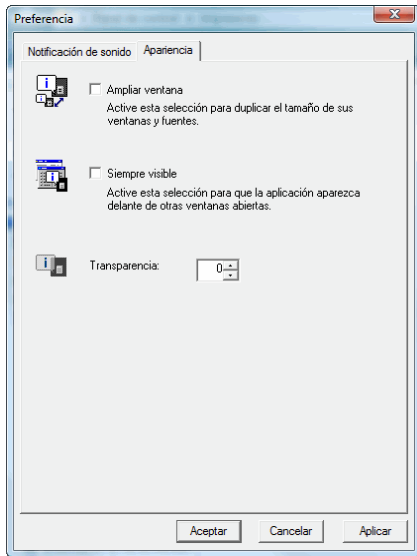
- 1 Select **Enable Event Notification**.
- 2 Select an event to use with the text to speech function in Available events.
- 3 Click Browse to notify the event by sound file.



Note The available file format is WAV.

Select **Use Text to speech** to speech the text entered in Text to speech box when an event occurred.

- 4 Click **Play** to confirm the sound or text is played correctly.



Appearance Tab

The Appearance tab is contains the following items.

Enlarge window

Doubles the size of the Status Monitor window.

Always on top

Positions the Status Monitor in front of other active windows.

Transparency

Displays the Status Monitor as a transparent window.

Uninstalling Software (Windows PC)

The software can be uninstalled (removed) using the CD-ROM (Product Library) supplied with the printer.

IMPORTANT On Macintosh computers, because the printer settings are specified using a PPD (PostScript Printer Description) file, the software cannot be uninstalled using the CD-ROM (Product Library).

- 1 Exit all active software applications.
- 2 Insert the enclosed CD-ROM (Product Library) into the CD-ROM drive.
- 3 Following the procedure used to install the printer driver, click **Remove Software**. The Uninstaller wizard appears.
- 4 Select the software package to remove.
- 5 Click **Uninstall**.



Note In Windows Vista, the **Remove Driver and Package** screen appears. Select **Remove driver and driver package**, and click **OK**.

The uninstaller starts.

- 6 When Uninstall complete screen appears, click **Next**.
- 7 Select whether you restart your computer or not, click **Finish**.

4 Maintenance

This chapter contains explanations on the following topics:

General Information	4-2
Toner Container Replacement	4-2
Replacing the Waste Toner Box	4-6
Cleaning the Printer	4-8

General Information

This chapter describes basic maintenance tasks you can perform on the printer. You can replace the following component according to the printer's display:

- Toner Kits
- Waste Toner Box

Also, the following parts need periodic cleaning:

- Paper Transfer Unit



Note Information Collection on Memory Chips - The memory chip attached to the toner container is designed to improve convenience for the end user; to support the recycling operation of empty toner containers; and to gather information to support new product planning and development. The information gathered is anonymous - it cannot be associated to any specific individual and the data is intended to be used anonymously.

Toner Container Replacement

The toner container in the printer should be replaced as soon as the message display shows `Toner low` or soon after. If you continue to use the printer, eventually the toner supply will be exhausted at which point the printer will stop printing and the `Replace toner C,M,Y,K` message will be shown instructing you to install a new toner kit.

Frequency of Toner Container Replacement

The life of the toner containers depends on the amount of toner required to accomplish your printing jobs. According to ISO/IEC 19798 and EcoPrint switched off the toner container can print as follows (A4/Letter paper is assumed):

CLP 4521

Toner Color	Life of the Toner Container (Printable pages)
Black	5,000 images
Cyan	4,000 images
Magenta	4,000 images
Yellow	4,000 images

CLP 4621

Toner Color	Life of the Toner Container (Printable pages)
Black	7,000 images
Cyan	6,000 images
Magenta	6,000 images
Yellow	6,000 images

CLP 4626

Toner Color	Life of the Toner Container (Printable pages)
Black	12,000 images
Cyan	10,000 images
Magenta	10,000 images
Yellow	10,000 images



Note The toner containers packed with the new printer are starter toner containers. The starter toner container prints up to 50 % of the printer's capacity before running out (For example: CLP 4621 can print 3,500 monochrome images using the black starter toner container).

Toner Kits

For best results, we recommend that you only use genuine TA Triumph- Adler Parts and Supplies. Should any damage be caused by the application of a toner other than the original TA Triumph-Adler toner, then this damage is excluded from the guarantee.

The toner kits are supplied in 4 different colors: cyan, magenta, yellow and black.

A new toner kit for each color contains the following items:

- Toner Container
- Plastic waste bags for old toner container and old waste toner box
- Waste Toner Box
- Installation Guide



Note Do not remove the toner container from the carton until you are ready to install it in the printer.

Understanding Messages Requesting Toner Container Replacement

The printer displays messages for individual colors at two stages of toner usage. This message is automatically alternated with the other printer message (such as *Ready*):

- When the printer becomes low on toner, for example in the cyan container, the printer displays the message *Toner low C* as the first caution. Note the replacement is not always necessary at this stage.
- If you ignore the above message and continue printing, the printer displays the message *Replace toner* — just before the toner is used up. The toner container must be replaced immediately. Clean the separate charger wires, etc. After the cleaning is finished, however, the message does not automatically change to *Ready*. To restart printing, you must press **[GO]** and make the printer ready.

In either case, replace the toner container, refer to *Toner Container Replacement* on page 3-2.

Replacing the Toner Container

This section explains how to replace the toner containers. When replacing the toner container of any color, always replace the waste toner box at the same time. If this box is full, the printer may be damaged or contaminated by the waste toner that may spill over the box.



CAUTION Do not attempt to incinerate the Toner Container. Dangerous sparks may cause burns.

IMPORTANT During toner container replacement, temporarily move storage media and computer supplies (such as floppy disks) away from the toner container. This is to avoid damaging media by the magnetism of toner.

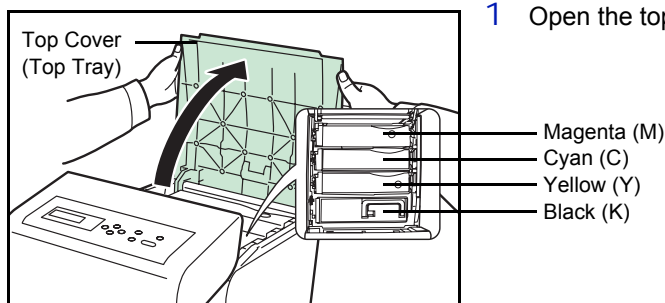
IMPORTANT TA GmbH is not liable against any damages or problems arising from the use of toner containers other than those designated as original TA Triumph-Adler toner containers. For optimum performance, it is also recommended to use only the TA Triumph-Adler toner containers which are specifically intended for use in your country or region. If the toner container for another destinations is installed, the printer will stop printing.



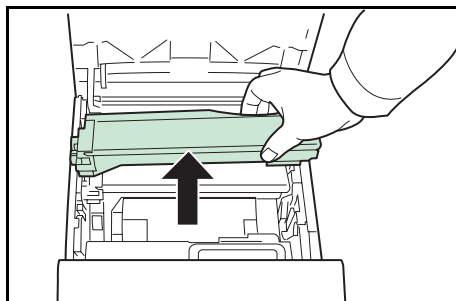
Note You do not have to turn printer power off before starting the replacement. Any data that may be processing in the printer will be deleted if you turn the printer power off.

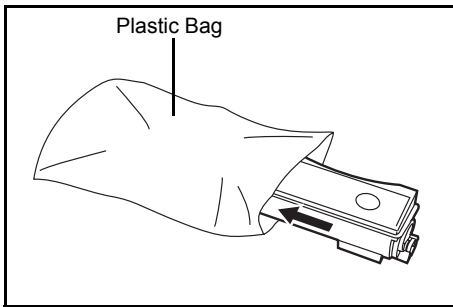
To replace the toner container, first make sure of the color of the toner container requiring replacement. In this example, it is assumed that you are replacing the yellow toner container.

- 1 Open the top cover (top tray).

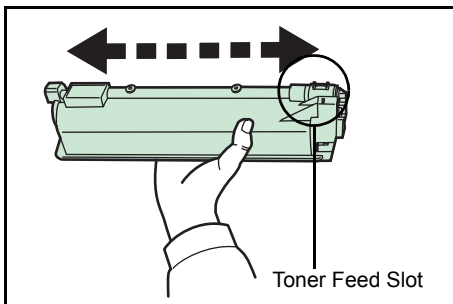


- 2 Carefully remove the old toner container from the printer.

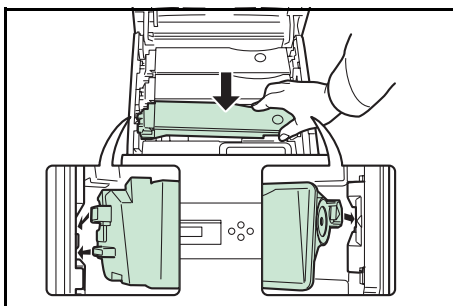




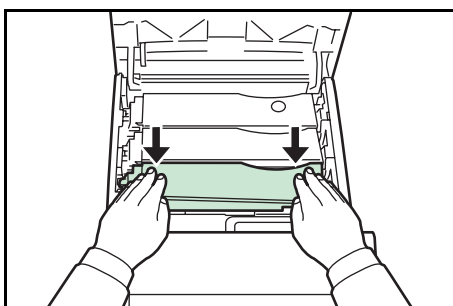
- 3 Put the old toner container in the plastic bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.



- 4 Take the new toner container out of the toner kit.
- 5 Shake the new toner container 5 or 6 times as shown in the figure in order to distribute the toner evenly inside the container. Do not press too firmly on the center of the toner container or touch the toner feed slot.



- 6 Set the new toner container in the printer as shown in the figure below.



- 7 Push down on the top of the toner container to install it firmly in place. Use the same procedure to replace the other color toner containers.

- 8 Close the top cover (top tray).



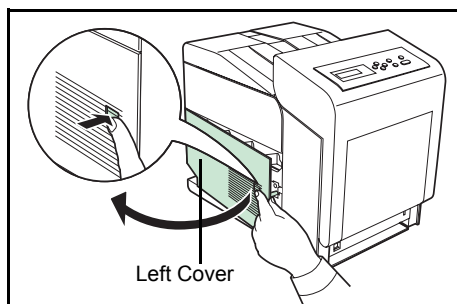
Note If the top cover (top tray) does not close, check that the new toner container is installed correctly (in step 7). After use, always dispose of the toner container and the waste toner box in accordance with Federal, State and Local rules and regulations.

Proceed to the next section.

Replacing the Waste Toner Box

Replace the waste toner box when the `Check waste toner box` message is displayed. A new waste toner box is included with the toner kit. The waste toner box needs to be replaced before the printer will operate.

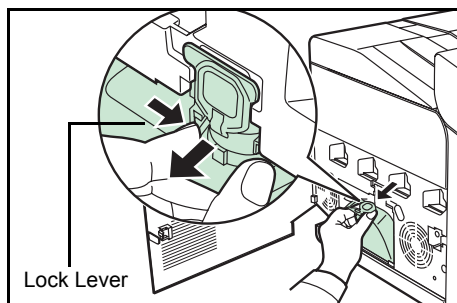
- 1 Open the left cover.



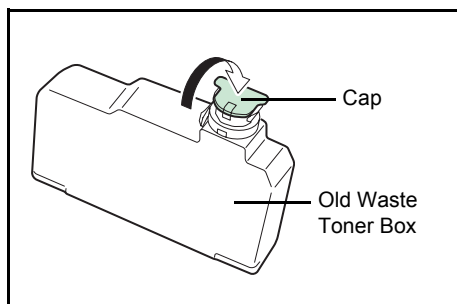
- 2 While holding the waste toner box, press the lock lever and then gently remove the waste toner box.



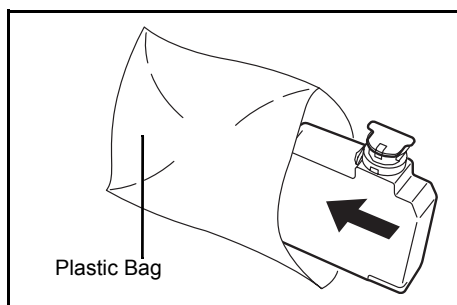
Note Remove the waste toner box as gently as possible so as not to scatter the toner inside. Do not let the opening of the waste toner box face downward.

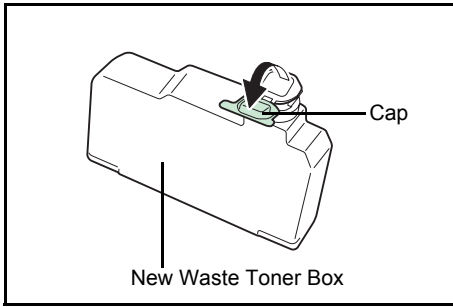


- 3 Close the cap to the old waste toner box after removing the box from the printer.

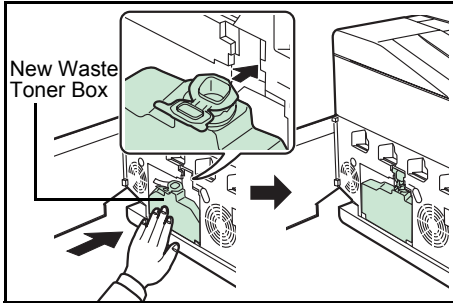


- 4 To prevent toner from spilling, put the old waste toner box in the plastic bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.





- 5 Open the cap of the new waste toner box.



- 6 Insert the new waste toner box as shown in the figure. When the box is set correctly, it will snap into place.

- 7 Make sure that the waste toner box is correctly inserted and close the left cover.

After replacing the toner containers and the waste toner box, clean the paper transfer unit. For instructions, refer to *Cleaning the Printer* on page 4-8.

Cleaning the Printer

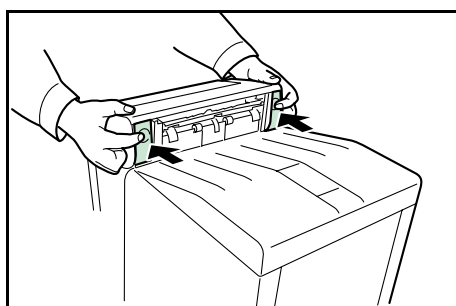
The paper transfer unit should be cleaned each time the toner container and waste toner box are replaced.

To maintain optimum print quality, it is also recommended that the inside of the printer be cleaned once a month as well as when the toner container is replaced.

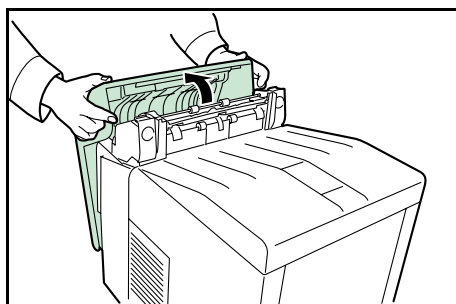
It should also be cleaned if streaking or lines appear on printed copies, or if printouts appear faint or blurred.

Cleaning the Paper Transfer Unit

Print problems such as soiling of the reverse side of printed pages may occur if the paper transfer unit becomes dirty. To clean the paper transfer unit, you must use the cleaning cloth.

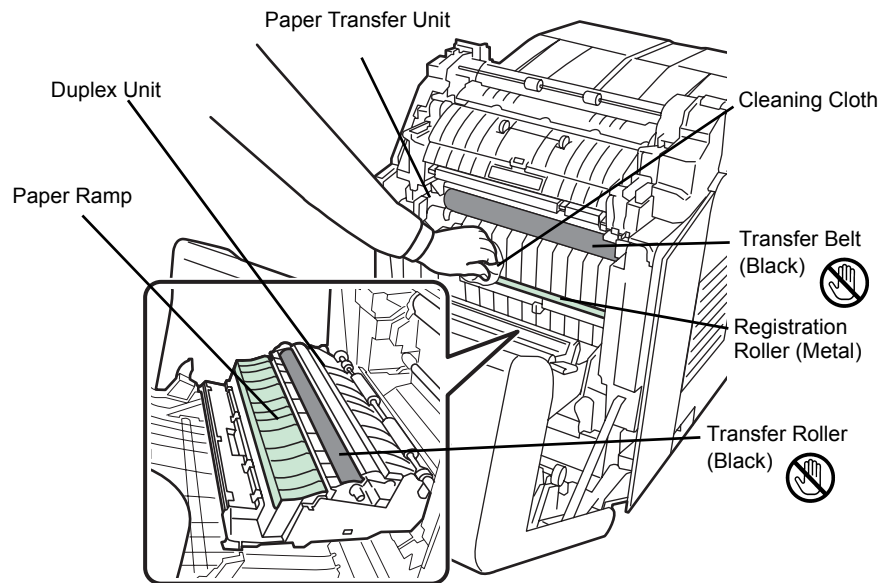



- 1 Press the lever to release the lock.




- 2 Pull out the front cover.

-
- 3 Wipe away the paper dust on the registration roller and the paper ramp using the cleaning cloth.



 **Note** Be careful not to touch the black transfer roller and black transfer belt during cleaning as this may adversely affect print quality.

- 4 Push the front cover back in completely.

 **Note** Take care not to get your hands caught in the front cover when you close it.

5 Troubleshooting

This chapter contains explanations on the following topics:

General Guidelines	5-2
Print Quality Problems	5-3
Error Messages	5-6
Clearing Paper Jams	5-12

If a problem cannot be corrected, contact your service technician.

General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service.

Symptom	Check Items	Corrective Action
Print quality is not good.	Refer to <i>Print Quality Problems</i> on page 5-3.	
Paper is jammed.	Refer to <i>Clearing Paper Jams</i> on page 5-12.	
Nothing lights on the operation panel even when power is turned on and the fan makes no noise.	Check that the power cord is properly plugged into the power outlet.	Turn off the printer's power, plug in the power cord securely, and try turning on the printer's power again.
	Check that the power switch is in the On (I) position.	Set the power switch to the On position.
The printer prints a status page, but does not print jobs from the computer.	Check the printer cable or the interface cable.	Connect both ends of the printer cable securely. Try replacing the printer cable or the interface cable.
	Check program files and application software.	Try printing another file or using another print command. If the problem occurs only with a specific file or application, check the printer driver settings for that application.
The printer is emitting steam in the area around the top tray.	Check the room temperature to see if it is low, or if damp paper was used.	Depending on the printing environment and the paper's condition, the heat generated during printing will cause the moisture in the paper to evaporate, and the steam emitted may look like smoke. This is not a problem, and you can continue printing. If the steam concerns you, raise the room temperature, or replace the paper with a newer, dryer paper.

Tips

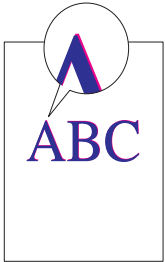
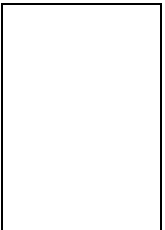
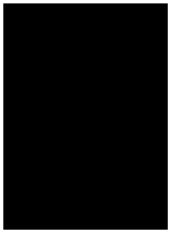
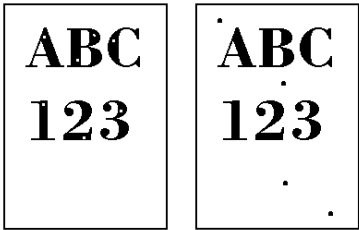
Printer problems may be solved easily by following the tips below. When you have encountered a problem that following the above guidelines will not solve, try the following:

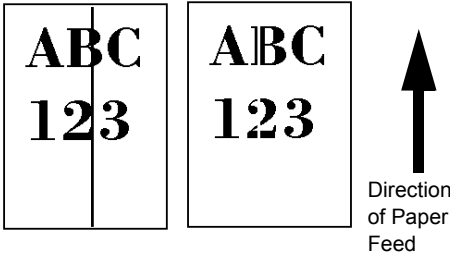
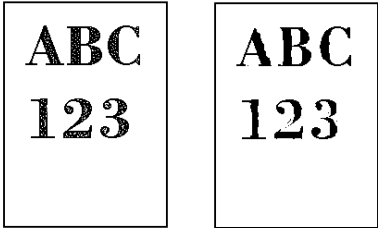
- Turn the printer power off and wait for several seconds. Then, turn on the printer.
- Reboot the computer which sends the print jobs to the printer.
- Obtain and use the latest version of the printer driver. The latest versions of printer drivers and utilities are available at the internet.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.

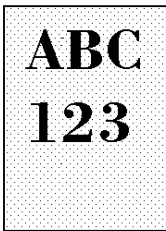
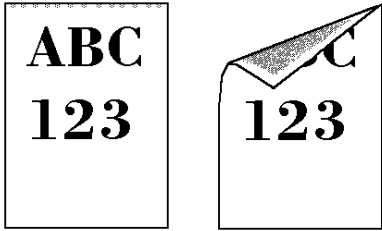
Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service.

Printed Results	Corrective Action
Skewed-color printout 	<p>Conduct color registration using the printer operation panel. For details, refer to <i>Registration Normal (Color registration [standard])</i> section or <i>Registration Details (Color registration [detailed])</i> section of the <i>Advanced Operation Guide</i>.</p>
Completely blank printout 	<p>Check the toner containers. Open the printer top cover (top tray) and check that the toner containers are correctly installed in the printer. For more information on installing the toner containers, refer to <i>Toner Container Replacement on page 4-2</i>.</p> <p>Check that the application software is correctly operated.</p>
Full single-color printout 	<p>Check the main charger unit. Open the left cover and check that the main charger unit is correctly installed.</p>
Dropouts or stray dots 	<p>Clean the main charger units. For details, refer to <i>LSU/Charger (LSU/Main charger cleaning mode setting)</i> section of the <i>Advanced Operation Guide</i>.</p>

Printed Results	Corrective Action
<p>Black or white vertical streaks</p> 	<p>Check the operation panel for toner. If the Toner low C,M,Y,K message is displayed with color description, install a new toner kit for the color. To replace the toner container, refer to <i>Toner Container Replacement on page 4-2</i>.</p> <p>Clean the main charger units. For details, refer to <i>LSU/Charger (LSU/Main charger cleaning mode setting)</i> section of the <i>Advanced Operation Guide</i>.</p> <p>Refresh drum. Perform the following procedures on the operation panel and try cleaning the drum surface using the printer's built-in cleaning system.</p> <ol style="list-style-type: none"> 1 Press [MENU]. 2 Press \triangle or ∇ repeatedly until Adjust/Maintenance > appears. 3 Press \triangleright. Press \triangle or ∇ repeatedly until >Service > appears. 4 Press \triangleright. Press \triangle or ∇ repeatedly until >>Drum appears. 5 Press [OK] twice. 6 The message display shows Please wait. After approx. 3 minutes, the display returns to Ready.
<p>Faint or blurred printing</p> 	<p>Clean the main charger units. For details, refer to <i>LSU/Charger (LSU/Main charger cleaning mode setting)</i> section of the <i>Advanced Operation Guide</i>.</p> <p>Make sure the paper type setting is correct the paper being used. For details, refer to <i>Paper Settings</i> section of the <i>Advanced Operation Guide</i>.</p> <p>Conduct color calibration either by switching the printer off then on or using the printer operation panel. For details, refer to <i>Color Calibration</i> section of the <i>Advanced Operation Guide</i>.</p> <p>Try adjusting the color control settings using the printer driver.</p> <p>Check the operation panel. If the Toner low C,M,Y,K message is displayed with color description, install a new toner kit for the color. To replace toner, refer to <i>Toner Container Replacement on page 4-2</i>.</p> <p>Refresh drum. Perform the following procedures on the operation panel and try cleaning the drum surface using the printer's built-in cleaning system.</p> <ol style="list-style-type: none"> 1 Press [MENU]. 2 Press \triangle or ∇ repeatedly until Adjust/Maintenance > appears. 3 Press \triangleright. Press \triangle or ∇ repeatedly until >Service > appears. 4 Press \triangleright. Press \triangle or ∇ repeatedly until >>Drum appears. 5 Press [OK] twice. 6 The message display shows Please wait. After approx. 3 minutes, the display returns to Ready.

Printed Results	Corrective Action
<p>Grey background</p> 	<p>Clean the main charger units. For details, refer to <i>LSU/Charger (LSU/Main charger cleaning mode setting)</i> section of the <i>Advanced Operation Guide</i>.</p> <hr/> <p>Conduct color calibration either by switching the printer off then on or using the printer operation panel. For details, refer to <i>Adjust/Maintenance (Adjust/Maintenance selection/setting)</i> section of the <i>Advanced Operation Guide</i>.</p>
<p>Dirt on the top edge or back of the paper</p> 	<p>Check the paper chute and the ramp. Pull out the paper transfer unit and check for toner on the paper ramp. Clean the paper ramp using a soft, dry, lint-free cloth. For details, refer to <i>Cleaning the Paper Transfer Unit</i> on page 4-8.</p> <hr/> <p>Clean the main charger units. For details, refer to <i>LSU/Charger (LSU/Main charger cleaning mode setting)</i> section of the <i>Advanced Operation Guide</i>.</p>

Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself. If **Call service** appears, turn off the printer, disconnect the power cord, and contact your service technician.

If **Call service** or **Error.Power off.** is displayed, turn off the printer then turn it back on to see if the printer has recovered. If the printer has not recovered, turn off the printer, disconnect the power cord, and contact your service representative or authorized service center.

Some errors cause the alarm to sound. To stop the alarm, press **[Cancel]**.

Message	Corrective Action
Account error ## Press GO	This message is displayed when the Job Accounting function is enabled and an attempt to specify job accounting settings or to register or delete an account fails. To return the printer to the print-ready status, press [GO] .
Add paper MPTray	The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders). This message is displayed alternately with messages indicating the printer status, such as, Ready , Please wait , and Processing .
Call service F000F###:	F### represents a controller error (#=0, 1, 2, ...). Call for service. The printer does not operate when this message is displayed.
Call service ####:0123456	#### represents a mechanical error (#=0, 1, 2, ...). Call for service. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. 0123456.
Canceling data	Displayed when data is being canceled.
Cassette # not loaded	The corresponding paper cassette is not installed. Install the cassette. The cassette number can be 1 (topmost) to 4 (bottom).
Change envelope switch position	Displayed when the paper type does not match the envelope switch setting.
Check cassette #	This message is displayed when a paper lift error has occurred in the paper source's cassette. Pull out the cassette for the paper source displayed (either the paper cassettes or optional paper feeders) and check if the paper is loaded correctly. The message Call service is displayed when this error occurs repeatedly.
Check waste toner box	This message warns following two cases. Install the new waste toner box. The waste toner box is not installed. The waste toner box is full.
Clean printer Press GO	Please clean the inside of the printer. Refer to <i>Cleaning the Printer on page 4-8</i> . This message will be displayed when replacing the toner container after the message Replace toner Clean printer is displayed. After cleaning the inside of the printer, press [GO] and the printer will be ready for printing.
Close front cover	The front cover of the printer is open. Close the front cover.
Close left cover	The left cover of the printer is open. Close the left cover.

Message	Corrective Action
Close top cover	The top cover of the printer is open. Close the printer top cover.
Device busy	This message is displayed when <code>Remove Device</code> was selected while a USB memory was being used. The previous screen is displayed again 1 or 2 seconds.
Duplex disabled Press GO	You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press [GO] to print onto one-side of the paper only.
Enter Account	An account code must be entered. This message is displayed if you try to print from the operation panel (e.g. printing a status page or using the Job Retention function) when the Job Accounting function is enabled. For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i> .
Envelope mode	Displayed when the envelope switch is set to envelope mode. If the Attention indicator is flashing, check the installed optional hard disk or the memory card format.
Error.Power off. F###	Turn the power switch off and then back on again. If this message still remains, turn the power switch off, and contact your service representative or authorized service center.
Error.Power off. F000	The printer controller and operation panel cannot exchange data. Turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.
Exceeded Max.out Press GO	This message is displayed when the Job Accounting function is enabled and an attempt has been made to exceed the print limit set for each account. To return the printer to the print-ready status, press [GO] . For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i> .
File not found Press GO	The specified file was not found on the hard disk, RAM disk or memory card. For more information on the hard disk, RAM disk and memory cards, refer to <i>Device Common (Selecting/Setting the common device)</i> section of the <i>Advanced Operation Guide</i> .
Format error Hard disk	The hard disk installed in the printer is not formatted, and therefore cannot be read or written.
Format error Memory card	The memory card inserted in the printer is not formatted, and therefore cannot be read or written. To format a memory card, follow the procedure in <i>Memory Card (Using the memory card)</i> section of the <i>Advanced Operation Guide</i> .
Hard disk err ## Press GO	A hard disk error has occurred. Look at the error code given in place of ## and refer to <i>Storage Error Codes on page 5-10</i> . To ignore the hard disk error, press [GO] .
ID error	The user ID entered for a private job is not correct. Check the user ID that you specified on the printer driver. For more information, refer to <i>Job Box</i> section of the <i>Advanced Operation Guide</i> .
Illegal Account Press GO	This message is displayed when the Job Accounting function is enabled and no account is set for a transmitted print job or the specified account is not registered (the incorrect account is set). To return the printer to the print-ready status, press [GO] . For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i> .
Install MK	Replace Maintenance Kit which is displayed on the message display. Replacement of the maintenance kit is necessary at every 200,000 images of printing and requires professional servicing. Contact your service technician.

Message	Corrective Action
Job not stored Press GO	Printing using the Job Box function failed because there was insufficient space available on the hard disk or RAM disk, or because the RAM disk was disabled when demounting the hard disk. To print an error report and return the printer to the print-ready status, press [GO] .
Job restricted Press GO	This message is displayed when printing was attempted, despite the Job Account function being on with Restriction applied as the job limit for each job account. To return the printer to the print-ready status, press [GO] . For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i> .
KPDL error ## Press GO	Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display >>Error Report from the menu system, and select On. Press [GO] to resume printing. You can abandon printing by pressing [Cancel] . If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
Load Cassette # (A4) / (PLAIN)	The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press [GO] to resume printing. If you want to print from a different paper source, press Δ or ∇ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing [MENU] , Paper Settings > appears. By pressing the Δ , the paper type settings menu appears. After setting the correct paper type, press [OK] and printing starts.
Load MP Tray (A4) / (PLAIN)	There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press [GO] to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.) If you want to print from a different paper source, press Δ or ∇ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing [MENU] , Paper Settings > appears. By pressing the Δ , the paper type settings menu appears. After setting the correct paper type, press [OK] and printing starts.
Low security	This message is displayed when Low was selected in Security Level.
Memory overflow Press GO	The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press [GO] to resume printing. You can abandon printing by pressing [Cancel] . If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
MemoryCard err## Press GO	A memory card error has occurred. Look at the error code given in place of ## and refer to <i>Memory Card and USB Memory Errors on page 5-11</i> . To return the printer to the print-ready status, press [GO] .
No multi copies Press GO	Multi copies cannot be printed because RAM disk is disabled or the hard disk is not installed. Try adding more memory or installing hard disk, and configuring the RAM disk settings.
No power supply Cassette	This message is displayed when the optional paper feeder PF-510 is not connected to a power source and COATED (coated paper) is selected as the paper type setting. Connect it to a power source via the printer.
Original toner installed	Displayed when the installed toner is the original TA Triumph-Adler product.

Message	Corrective Action
Paper jam #####	A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For details, refer to <i>Clearing Paper Jams on page 5-12</i> .
Paper loading	The selected cassette is being prepared.
Paper path error	There is no paper cassette in the feeder, or the cassette is not inserted properly. After reinserting the paper cassette, you should be able to print. When two or more optional feeders are installed and the lowest one is selected, the same message will appear if any of the upper paper feeder and the printer cassette is improperly installed.
Print overrun Press GO	The data transferred to the printer was too complex to print on a page. Press [GO] to resume printing.
RAM disk error## Press GO	A RAM disk error has occurred. Look at the error code given in place of ## and refer to <i>Storage Error Codes on page 5-10</i> . To ignore the RAM disk error, press [GO] .
Replace toner C,M,Y,K ↓ ↑ Replace toner Clean printer	Two message items are displayed alternately. Toner has run out in the toner container(s). Replace the toner container using a new toner kit for the particular color. The printer does not operate when this message is displayed. For example, if <i>Replace toner C,K</i> is displayed, replace the cyan and the black toner containers.
Toner low C,M,Y,K	Replace the toner container using a new toner kit. Color of the toner container that needs to be replaced is represented by C (Cyan), M (Magenta), Y (Yellow), and K (Black).
Top tray paper full	The top tray has become full (approx. 250 pages). You must remove all printed pages from the top tray. When the printer detects that the top tray is empty again, the printer will continue printing into the top tray.
Unknown toner C,M,Y,K	This message is displayed if the installed toner container's regional specification does not match the printer's. Install the specified toner container.
Unknown toner installed	Displayed when the installed toner is not the original TA Triumph-Adler product. Install original TA Triumph-Adler toner.
USB memory err## Press GO	An error has occurred in the USB memory device. To return the printer to the print-ready status, press [GO] .
Use alternative? Cassette 1	When the cassette does not contain any paper that matches the print data (paper size and type), this message allows you to specify an alternative cassette to use instead. A paper source number is only displayed when an optional paper feeder is installed. To print from a different paper source, refer to <i>Paper Feed Mode (Setting the paper feed source)</i> section of the <i>Advanced Operation Guide</i> .
Wrong Account	Displayed when an attempt is made to register an account in the Job Accounting menu by entering an account code that already exists. For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i> .

Message	Corrective Action
ID error	<ul style="list-style-type: none"> The ID or Password entered for the Job Accounting function is not correct. Check the ID or Password. For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i>. The user ID entered for a private job, or a stored job is not correct. Check the user ID that you specified on the printer driver.
Wrong ID	
Wrong Password	The password does not match the password set. Enter the correct password. For more information, refer to <i>Job Accounting (Job Accounting selection/setting)</i> section of the <i>Advanced Operation Guide</i> .

Storage Error Codes

Hard Disk Errors

Code	Meaning
01	Hard disk format error. If this error recurs even if the power has been turned off and then on, reformat the hard disk.
02	The disk system is not installed. Recheck the requirements for using the system and the devices.
04	There is no available hard disk space. Delete unnecessary files, etc., in order to free up space.
05	The specified file does not exist in the hard disk.
06	There is no memory available to the hard disk system. Increase the available memory.
10	Formatting is not possible because host data is being spooled on the hard disk. Wait until the hard disk is ready, and then format.
97	The number of permanent code jobs that can be stored reached the limit value, and no more can be saved. Either delete some unnecessary jobs, etc., or increase the limit.
98	An unreadable page was found in a job (The job is damaged.).
99	A print job for the specified ID does not exist in the hard disk.

Memory Card and USB Memory Errors

Code	Meaning
01	The printer does not support the memory card inserted, or the memory card is broken. Insert the correct memory card. For more information, refer to <i>Memory Card (Using the memory card)</i> section of the <i>Advanced Operation Guide</i> .
02	The memory card is not installed. Recheck the requirements for using the system and the memory card.
03	The memory card is write protected. Check the memory card's status.
04	There is not enough space in the memory card. Delete unnecessary files or use a new memory card.
05	The specified file is not on the memory card or the USB memory.
06	There is not enough printer memory to support the memory card system. Increase printer memory.
50	The memory card is write protected, or invalid. Check the memory card's status.

RAM Disk Errors

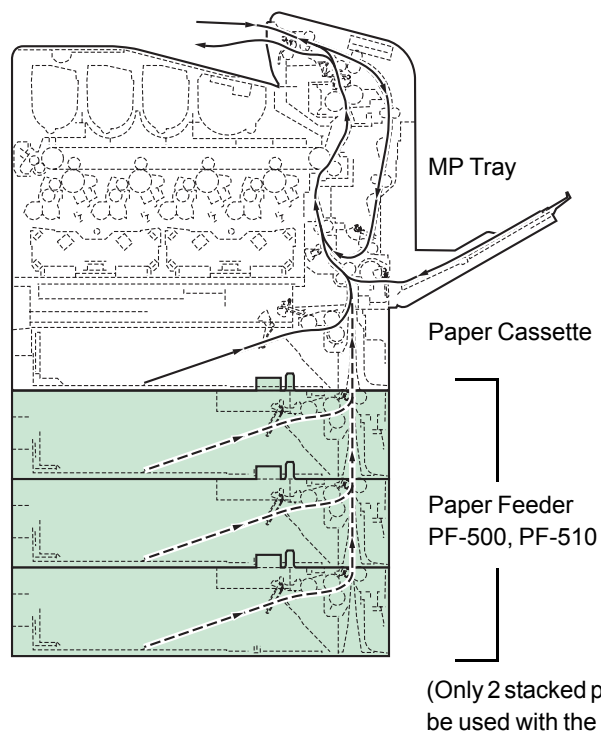
Code	Meaning
01	Format error. Try turning the power off and on again.
02	RAM disk mode is <code>Off</code> . Turn RAM disk mode <code>On</code> from the operation panel.
04	No disk space. Purge unnecessary files.
05	Specified file is not on disk.
06	Insufficient printer memory to support the RAM disk system. Expand printer memory.

Clearing Paper Jams

If the paper jammed in the paper transport system, or no paper sheets were fed at all, the `Paper jam` message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. The printer automatically goes off-line when this message is displayed. Remove jammed paper. After removing jammed paper, the printer will re-start printing.

Possible Paper Jam Locations

The figure below explains the printer's paper paths including the options. The locations where paper jams might occur are also shown here, with each location explained in the table below. Paper jams can occur in more than one component on the paper paths.



Paper Jam Message	Description	Reference Page
Paper jam Printer	Paper is jammed inside the printer, paper cassette or MP tray.	page 5-13 page 5-14 page 5-15
Paper jam Cassette 2 (to 4)	Paper is jammed at the optional paper feeder's cassette.	page 5-15

General Considerations for Clearing Jams


Bear in mind the following considerations when attempting jam removal:



CAUTION When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the jam recovery.

- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, flip the paper stack over, or rotate the paper stack 180 degrees. The printer may have problems if paper jams recur after the paper was replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed depends on the location of the paper jam.

Utilizing Online Help Messages

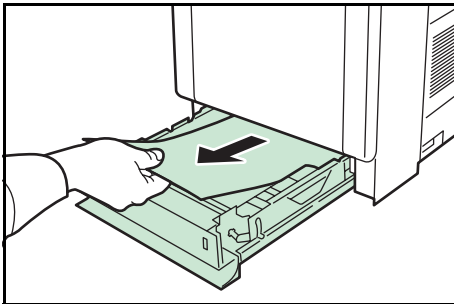
Online help messages are available in the printer's message display to provide simple instructions for clearing jams. Press () when the paper jam message has appeared. Then a help message will appear to facilitate jam clearing in the location.

Paper jam at Cassette

Paper is jammed at paper cassette.

- 1 First, open the printer's front cover and check for paper jams in the paper transfer unit.

For more information, refer to *Paper Jam in Printer on page 5-14*.



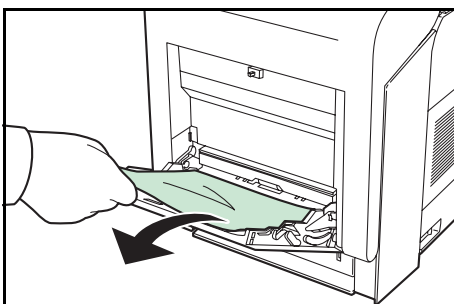
- 2 Pull out the paper cassette and remove the jammed paper.

Paper Jam at MP Tray

Paper is jammed at the MP tray. Remove the jammed paper using the procedure given below.

- 1 First, open the printer's front cover and check for paper jams in the paper transfer unit.

For more information, refer to *Paper Jam in Printer on page 5-14*.

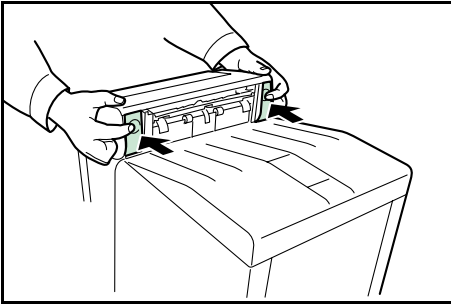


- 2 Remove the jammed paper.

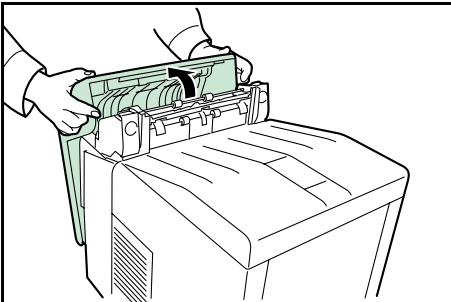
Paper Jam in Printer

Paper is jammed at the paper cassette or inside the printer. Remove the jammed paper using the procedure given below.

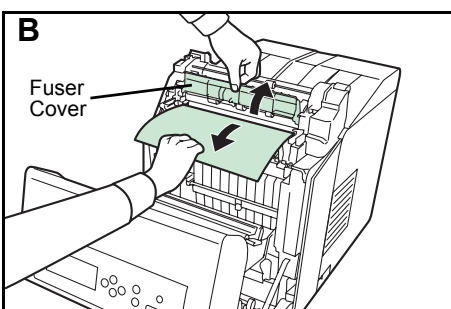
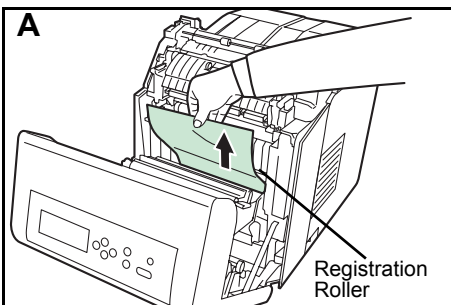
- 1 Press the lever to release the lock.



- 2 Pull the front cover towards you.



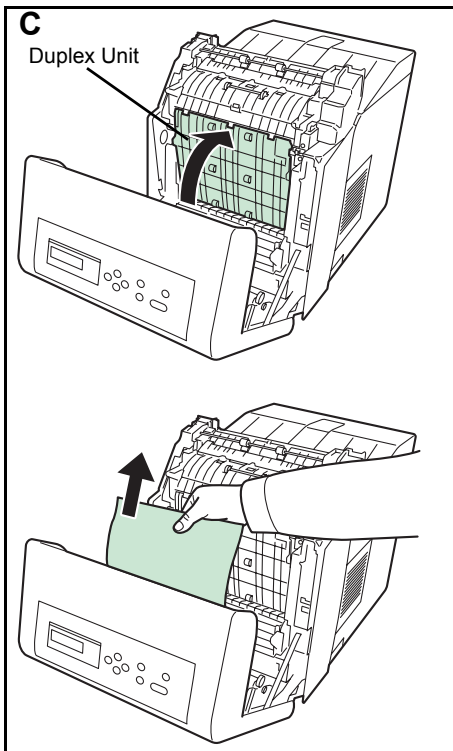
- 3 If the paper has jammed near the registration roller, as shown in **A**, remove the paper by pulling it up from the center.



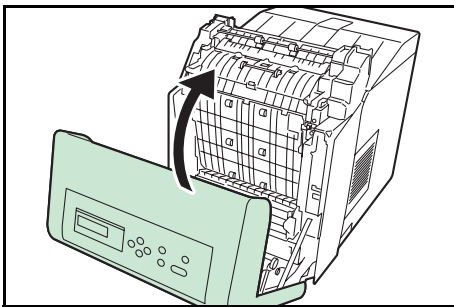
If the paper has jammed inside the fuser unit, as shown in **B**, open the fuser cover and remove the paper by pulling its edge.



CAUTION The fuser unit inside the printer is hot. Do not touch it with your hands as it may result in burn injury. Remove jammed paper carefully.



If the paper has jammed inside the duplex unit, as shown in **C**, lift the duplex unit and remove the paper by holding it in the middle.

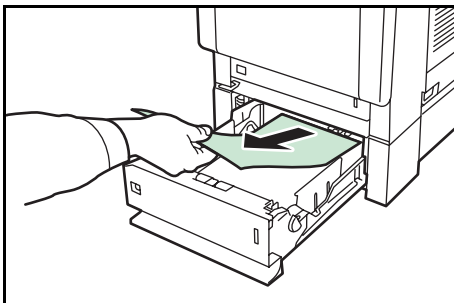


4 Close the front cover.

Paper Jam at Cassette 2 (to 4)

Paper is jammed at the paper cassette. Remove the jammed paper using the procedure given below.

Pull out the paper feeder and remove the jammed paper.



6 Using the Operation Panel

This chapter contains explanations on the following topics:

General Information	6-2
Understanding the Operation Panel	6-3
Keys	6-6
Using the Menu Selection System	6-8
Setting a Mode Selection Menu	6-10
Report Print	6-11
USB Memory (USB memory selection)	6-17
Job Box	6-19
Counter (Viewing the counter value)	6-25
Paper Settings	6-26
Print Settings	6-34
Network (Network settings)	6-42
Device Common (Selecting/Setting the common device)	6-47
Security	6-60
Job Accounting (Job Accounting selection/setting)	6-68
Admin (Administrator settings)	6-75
Adjust/Maintenance (Adjust/Maintenance selection/setting)	6-78

General Information

This chapter provides the information you need to configure the Ecosys Color printer. In general you need to use the operation panel only to make default settings. You can make most changes to the printer settings using the printer driver through the application software.



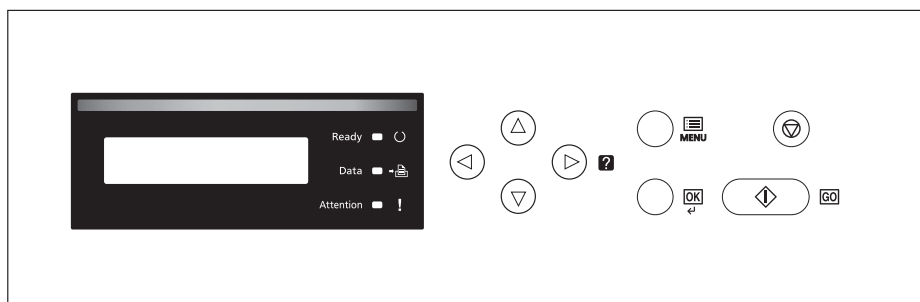
Note Changes to printer settings made using a software application override changes made using the operation panel.

You can also access the printer's various settings from a remote location, by using the control panel, the printer driver or other utilities such as the Status Monitor Utility. Other printer utilities can be installed using the CD-ROM supplied with the printer.

The chapter describes the operation panel in detail, including its menus and the procedures for changing various printer settings.

Understanding the Operation Panel

The operation panel on the top of the printer has a 2-line by 16-character liquid crystal display (LCD), eight keys, and three indicators (LED).



Messages that appear on the display and functions of indicators and keys are explained in this chapter.

Message Display

The message display on the operation panel shows:

- Status information, the ten messages listed below which are displayed during normal operation.
- Error codes, when the printer requires the operator's attention; as explained in the *Operation Guide*.

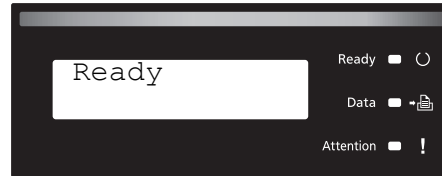
Status Information

Message	Meaning
Self test	The printer is performing self-diagnostics after power-up.
Please wait	The printer is warming up and is not ready. When the printer is switched on for the first time, this message will take several minutes.
Please wait (Paper loading)	This message appears when the printer is preparing to print coated paper (COATED) fed from the optional paper feeder PF-510.
Please wait (Adding toner)	Toner is currently being replenished. This message may be displayed during continuous printing of a large volume of pages which require a large amount of toner such as with photographs, etc.
Please wait (Calibrating)	The color calibration function is being performed automatically as you powered on the printer. You can also execute this function manually on the operation panel. For details, refer to <i>Color Calibration on page 6-78</i> .
Please wait (Cleaning)	Displayed during main charger cleaning.
Please wait (Cooling)	The printer is being cooled down and is not ready.
Ready	The printer is ready to print.
Processing	The printer is receiving data to print. This is also shown when the printer is reading a memory card, USB memory, hard disk or RAM disk.
Sleeping	The printer is in Auto Sleep. The printer wakes from Auto Sleep whenever a print job is received. The printer then warms up and goes on-line. For details on Auto Sleep, refer to <i>Sleep Timer (Sleep timer timeout time) on page 6-56</i> .
Canceling data	Jobs inside the printer are being canceled. To cancel a job, refer to <i>Canceling a Printing Job on page 6-6</i> .

Error Codes




Refer to the *Troubleshooting* section in the *Operation Guide*.

Indicators in Message Display



Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

Indicator	Description
Ready 	Flashing. Indicates an error that you can resolve. For details, refer to the <i>Troubleshooting</i> section in the <i>Operation Guide</i> . On. Indicates that the printer is ready and on-line. The printer prints the data it receives. Off. Indicates that the printer is off-line. Data can be received but will not be printed. Also, indicates when printing is automatically stopped due to an error condition. For details, refer to the <i>Troubleshooting</i> section in the <i>Operation Guide</i> .
Data 	Flashing. Indicates that a data is being received. On. Indicates either that data received is being processed before printing starts, or that data is being written to or read from a memory card or hard disk.
Attention 	Flashing. Indicates that the printer requires maintenance or is warming up. On. Indicates the occurrence of a problem or an error. For details, refer to the <i>Troubleshooting</i> section in the <i>Operation Guide</i> .

Keys

The operation panel keys are used to configure the printer operation. Note that certain keys have a secondary function.

GO Key



Use this key to:

- Recover from certain errors.
- Recover from Auto Sleep and Low Power mode.

Cancel Key



This key is used to:

- Cancel a printing job.
- Stop the alarm sound.
- Reset numeric values or cancel a setting procedure while using menu system.

Canceling a Printing Job

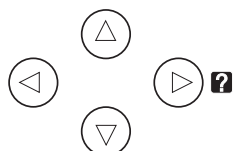
- 1 While the printer displays `Processing`, press **[Cancel]**.
`Print Cancel?` appears on the message display followed by the job name currently in progress.
- 2 Press \triangle or ∇ to display the desired job and **[OK]**.
`Canceling data` appears on the message display and printing stops after the current page is printed.

MENU Key



- **[MENU]** lets you enter the menu system to change the setup and printing environment of the printer.

Arrow Keys



- The four arrow keys are used in the menu system to access an item or enter numeric values. Use \triangle and ∇ to change menus, and \triangleleft and \triangleright to move to the sub menu.
- The arrow key with the question mark ($\triangleright?$) may be pressed when the paper jam message has appeared on the message display. A help message will then appear to facilitate jam clearing in the location.
- When `Use alternative?` is shown in the message display, use \triangle and ∇ key to select an alternative paper source.

OK Key



This key is used to:

- Finalize settings of numeric values and other selections.
- Set the paper source when `Use alternative?` is shown in the message display.

Using the Menu Selection System

Menu Selection System

This section explains how to use the menu selection system.

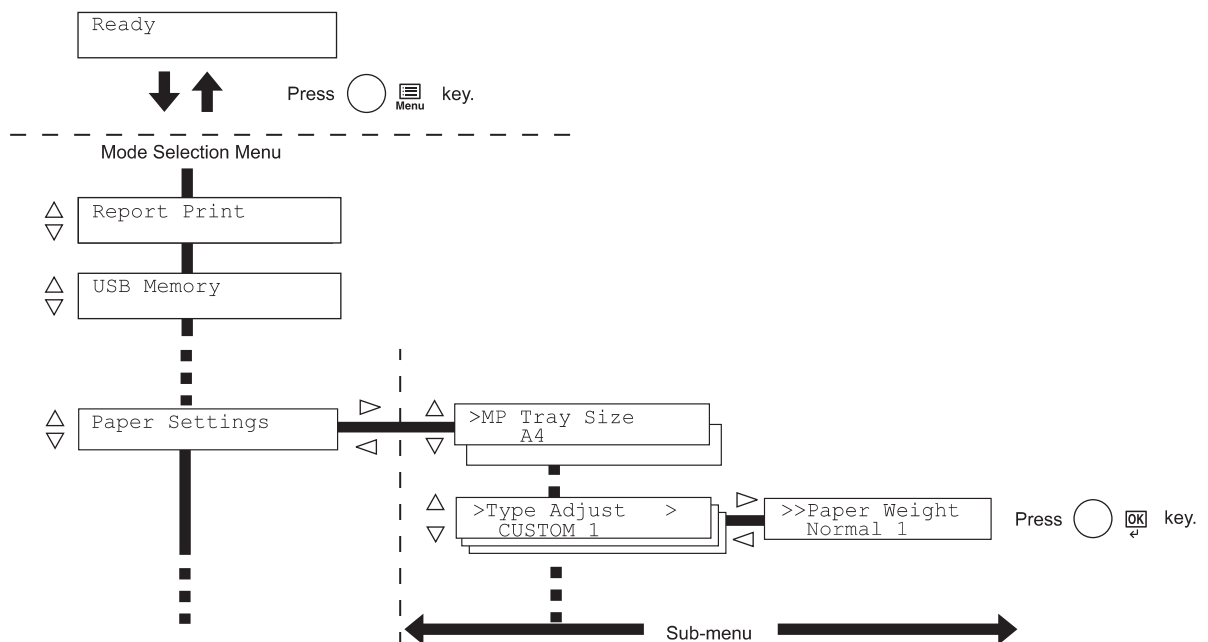
[MENU] on the operation panel allows you to use the menu to configure the printer settings to your specific needs. Settings can be made when *Ready* is indicated on the printer message display.



Note Settings that are received from application software and the printer driver will take priority over settings made in the operation panel.

Entering the Mode Selection Menu

Press **[MENU]** when *Ready* is indicated on the printer message display. The mode selection menu is displayed.



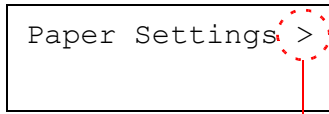
IMPORTANT Job Box is displayed in the selection menu when the hard disk or RAM Disk is installed. For more information, please refer to *Job Box* on page 6-19 or *RAM Disk Mode (Using the RAM disk)* on page 6-50.

Selecting a Menu

The mode selection menu is hierarchical. Press \triangle or ∇ to display the desired menu.

If the selected menu has a sub-menu, > is displayed after the menu.

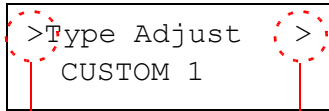
Press \triangleright to move to the sub-menu or \triangleleft to go back.



Indicates that there is a sub-menu

> is displayed before the sub-menu.

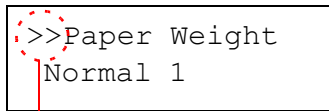
Press \triangleright to move to another sub-menu or \triangleleft to go back.



Indicates that this is
the sub-menu

Indicates that there is
another sub-menu

>> is displayed before the second sub-menu.



Indicates that this is the second sub-menu

Setting a Menu

Select the desired menu and press **[OK]** to set or change the configuration.

Press \triangle or ∇ to display the desired item and **[OK]** to finalize the value or selections set.

Cancelling Menu Selection

If you press **[MENU]** when a menu is selected, the message display returns to *Ready*.

Setting a Mode Selection Menu

This section explains the setting procedures used for each menu item in the mode selection menu.

Report Print >

- 1 While the printer displays `Ready, Please wait, Sleeping and Processing`, press **[MENU]**. The mode selection menu is displayed. (For example : `Report Print`)
- 2 Each time you press \triangle or ∇ , the selection changes.
 - Report Print
 - USB Memory
 - Job Box
 - Counter
 - Paper Settings
 - Print Settings
 - Network
 - Device Common
 - Security
 - Job Accounting
 - Admin
 - Adjust/Maintenance



Note If you use the mode first selected when the printer is turned on, `Report Print` is displayed. For the second and subsequent times, the last menu option you selected the previous time is displayed.

Report Print

The printer prints the report. Report Print includes the following items:

- Print Menu Map
- Print Status Page
- Print Fonts List
- Print Hard Disk File List
- Print RAM Disk File List
- Print Mem. Card File List

- 1 Press **[MENU]**.
- 2 Press \triangle or ∇ repeatedly until `Report Print >` appears.

`Report Print >`

Note that menus shown in the list may vary depending on which optional units installed in the printer.

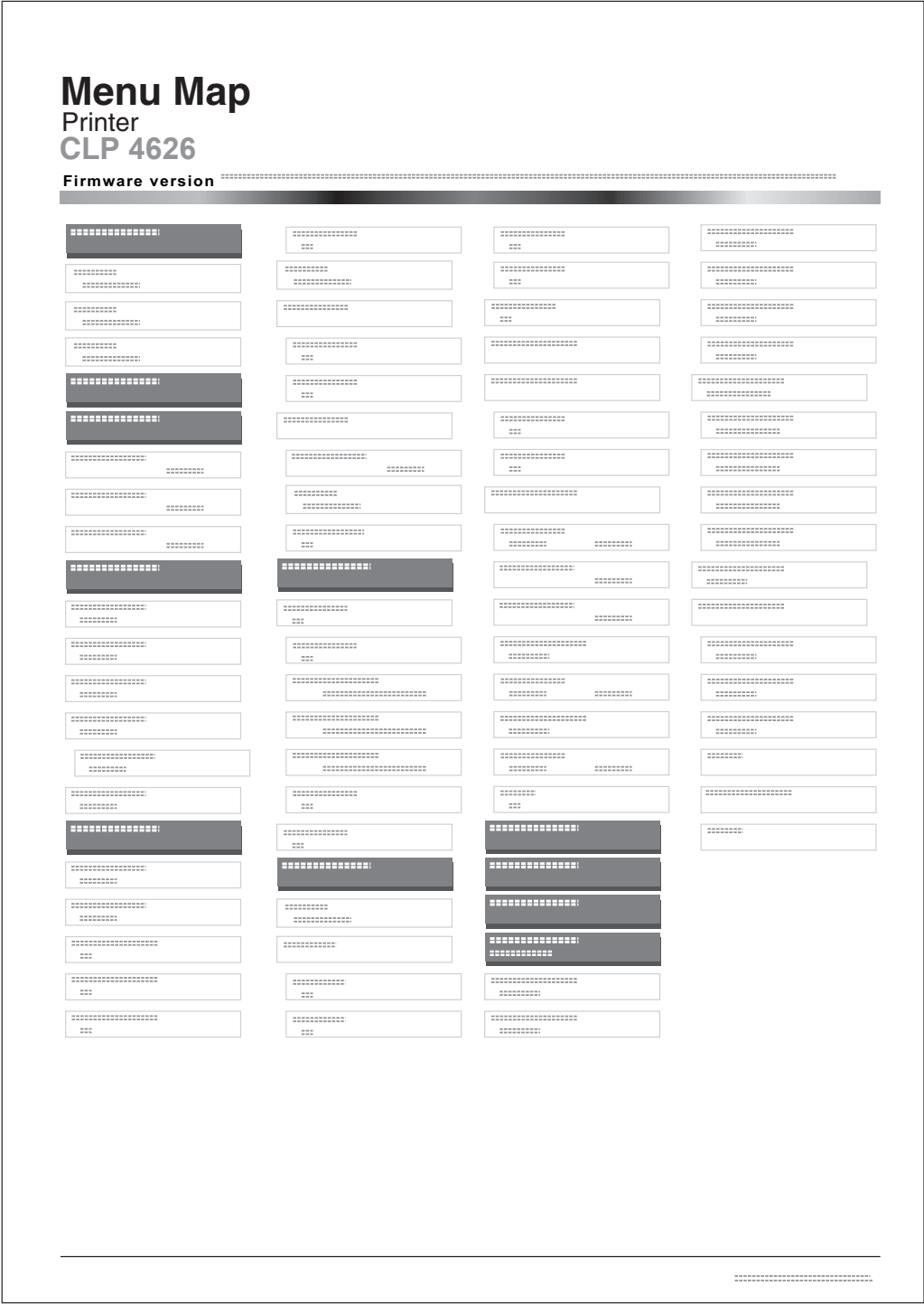
Print Menu Map

The printer prints a full list of the menu selection system menu map.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 `>Print Menu Map` appears. In other displays, press \triangle or ∇ repeatedly until the map appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]**. The message `Processing` appears and the printer prints a Menu Map.

`>Print
Menu Map ?`

Menu Map Sample



Print Status Page

You can check the printer's current status, including available memory space and option settings by printing a status page.

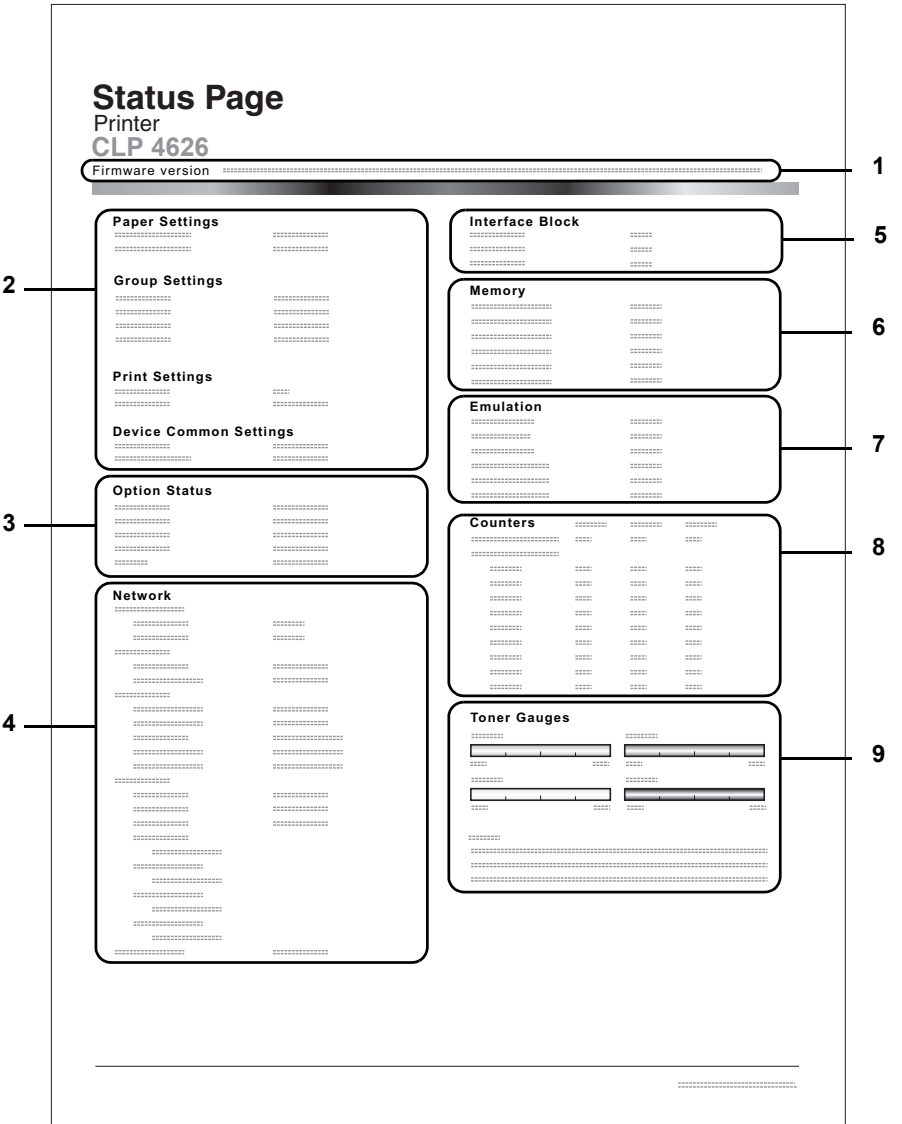
- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Status Page` appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a status page.

>Print
Status Page ?

For a sample status page and its full description, refer to the next section *Understanding the Status Page*.

Understanding the Status Page

The numbers in the following diagram refer the items explained below the diagram. The items and values on the status page may vary depending on the printer's firmware version.



1 Firmware Version

This item shows the version and release date of the printer firmware.

2 Printer Settings Information

This item shows various printer settings for hardware-related items:

- MP tray paper size and type
- Paper cassette size and type
- Sleep time
- Formfeed timeout time

3 Installed Options

This item shows the options installed in the printer:

- Hard disk
- Memory card

4 Network Status

This item shows the IP address, subnet mask address, and default gateway address for the network interface card in the printer.

5 Interface Information

This information shows the settings for all interfaces installed in the printer.

6 Memory

This item shows:

- Standard memory in the printer
- Option memory slot status in megabytes
- Total memory in the printer
- Current status of the RAM disk

7 Emulation

This item shows all available emulations of the printer. The KPDL (AUTO) emulation is set as default when the printer is shipped from the factory. The emulations are:

- PCL 6
- KPDL

8 Page Information

This item shows the page related items:

- Total printed page count
- Total page count of each paper size

9 Consumable Status

This item shows the approximate level of remaining toner. When the value is 100, the toner container is full. The closer to 0, the smaller the amount of remaining toner.

Print Fonts List

To help you decide in selecting a font, you can printout lists of the internal fonts or the optional fonts.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Fonts List ?` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>Print
Fonts List ?`

- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of fonts with a sample and font ID (number) for each of them.

Print Hard Disk File List

This allows you to print a list of the files on the hard disk.

This menu is displayed only when the optional hard disk is installed on the printer.

IMPORTANT This is only displayed when the printer has a hard disk installed and the disk is correctly formatted.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Hard Disk File List` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>Print Hard Disk
File List ?`

- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a hard disk.

Print RAM Disk File List

This allows you to print a list of the files on the RAM disk.

IMPORTANT This is displayed when RAM disk mode is enabled.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print RAM Disk File List` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>Print RAM Disk
File List ?`

- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a RAM disk.

Print Mem. Card File List

This allows you to print a list of the files on a memory card.

IMPORTANT This message will be displayed when the memory card installed in the printer.

>Print Mem. Card
File List ?

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Mem. Card File List` appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a memory card.

USB Memory (USB memory selection)

This specifies the settings for removing the USB memory and printing USB memory content.

IMPORTANT This message is displayed only when the USB host lock is not set.

The options available in USB Memory are as follows:

- Print File (Printing a file)
- Copies (Number of copies)
- Paper Source (Selecting the paper feed source)
- Remove Device (Removing the USB memory)
- Print File List (Printing a list of the files on a USB memory)

1 Press **[MENU]**.

USB Memory >

2 Press \triangle or ∇ repeatedly until `USB Memory >` appears.

Note that menus shown in the list may vary depending on which optional units installed in the printer.

Print File (Printing a file)

You can use this to specify printing for files in the USB memory.

1 Press \triangleright while `USB Memory >` is displayed.

2 `>Print File` appears. In other displays, press \triangle or ∇ repeatedly until the map appears.

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. The folder or file appears.

(For example : `Folder 1`)

Each time you press \triangle or ∇ , the next folder or file appears in succession.

To view lower-level folders or files, press \triangleright .

(For example : `Folder 2`)

/

/00:Folder 1

/00:Folder 1

/00:Folder 2

/.../00:Folder 2

00:File 3

To view folders or files on still lower levels, press \triangleright .

(For example : `File 3`)

IMPORTANT The `Print File` menu option is only displayed when there is a PDF, TIFF, JPEG or XPS file in the USB memory. Note also that up to 3 levels of folders or files are displayed. It might take some time before the folder or file name appears, depending on the size of the USB memory or the number of files.

You can move between the folder levels by pressing \triangle and ∇ or \triangleleft and \triangleright .

5 Press **[OK]**. A question mark (?) appears.

(For example : `File 3`)

/.../00:Folder 2

? 00:File 3

6 Press **[OK]** again. `Copies` appears.

Copies

001

Copies (Number of copies)

Sets the number of copies printed of the specified file in USB memory.

Copies
010

- 1 While `Copies` in step 5 above is displayed, press Δ and ∇ or \triangleleft and \triangleright to display the number of copies. (E.g.: 10)

Paper Source
? Cassette 1

- 2 Press **[OK]**. `Paper Source` and a question mark (?) appears.

Paper Source (Selecting the paper feed source)

Sets the paper used for printing the specified file in USB memory.

Paper Source
? Cassette 2

- 1 While `Paper Source` in step 2 above is displayed, press Δ and ∇ or \triangleleft and \triangleright repeatedly until the paper source appears. (For example : `Cassette 2`)

Note that menus shown in the list may vary depending on which optional units installed in the printer.

- 2 Press **[OK]**. The message `Processing` appears and the printer prints a file stored in a USB memory.

Remove Device (Removing the USB memory)

Specifies the setting for USB memory removal.

>Remove Device ?

- 1 Press \triangleright while `USB Memory >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Remove Device` appears.
- 3 Press **[OK]**. A question mark (?) appears.

- 4 Press **[OK]** again. Menu display ends and the USB memory device can be removed.

Print File List (Printing a list of the files on a USB memory)

This allows you to print a list of the files on a USB memory device.

>Print
File List ?

- 1 Press \triangleright while `USB Memory >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Print File List` appears.
- 3 Press **[OK]**. A question mark (?) appears.

- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a USB memory.

Job Box

IMPORTANT To use the Job Box, an optional hard disk must be installed in the printer. The RAM disk may also be used in the Proof-and-Hold and Private Print modes.

Job Box is a print function that makes the Job Retention function possible. The settings are specified from the printer driver. Refer to *KX Printer Driver User Guide* for the driver settings.

Job Retention

Job Retention has four modes as summarized below. These modes are selected from the printer driver through the application software:

	Quick Copy	Proof-and-Hold	Private Print	Stored Job
Primary function	To later print additional copies	To proof the first copy before printing multiple copies	To hold the document in printer to prevent unauthorized access	To electronically store documents such as fax cover pages
Start storing by	Printer driver	Printer driver	Printer driver	Printer driver
On terminating print setting from application software	Prints simultaneously	Prints one copy simultaneously	Does not print	Does not print
Retrieved by	Operation panel	Operation panel	Operation panel	Operation panel
Default number of copies printed at retrieval	Same as storing (can be changed)	One less (can be changed)	Same as storing (can be changed)	One (can be changed)
Maximum number of jobs stored †	32, expandable to 50	32, expandable to 50	Depends on the hard disk capacity (the job is automatically deleted after printing)	Depends on the hard disk capacity
PIN security	No	No	Yes	Yes (if necessary)
Data after printing	Stored	Stored	Deleted	Stored
Data at power off	Deleted	Deleted	Deleted	Stored
Hard disk	Necessary	Unnecessary (RAM disk may also be used)	Unnecessary (RAM disk may also be used)	Necessary

†. Jobs in excess will cause the earlier ones to be deleted.



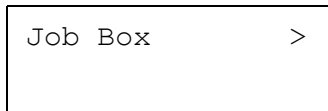
Note Refer to the *KX Printer Driver User Guide* for the driver settings and print (save) procedures.

The options available in Job Box are as follows:

- Using Quick Copy/Proof-and-Hold
Quick Copy (User Name) (Selecting the User)
(User Name) (Data Name) (Selecting the data)
(Data Name) Copies (number of copies) (Number of copies / deleted)
- Printing a Private Print/Stored Job
Private/Stored (User Name) (Selecting the User)
(User Name) (Data Name) (Selecting the data)

(Data Name) ID (number of copies) (Input passwords)
(Data Name) Copies (number of copies) (Number of copies / deleted)

- Job Box Configuration (Job Box Configuration)



- 1 Press **[MENU]**.
- 2 Press \triangle or ∇ repeatedly until Job Box > appears.

Note that menus shown in the list may vary depending on which optional units installed in the printer.

Quick Copy (Using Quick Copy)

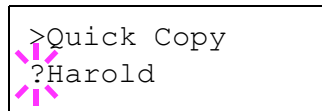
This mode enables you to print the requested number of copies of a job, simultaneously storing the job on the hard disk/RAM disk. When additional copies are required, you can reprint the required number of copies from the printer operation panel. To print a job as a quick copy job, refer to *KX Printer Driver User Guide*.

The default number of print jobs that can be stored on the hard disk is 32. This value can be increased to up to 50 from the Job Box Configuration menu. For details, refer to *Changing the Maximum Number of Quick Copy on page 6-24*. When the number of jobs reaches the limit, the oldest job will be overwritten by the new one.

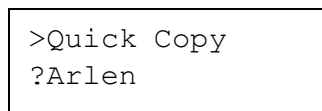
When the printer is turned off, all stored jobs will be deleted.



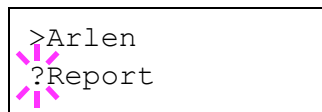
Note Refer to the *KX Printer Driver User Guide* for the driver settings.



>Quick Copy
?Harold



>Quick Copy
?Arlen



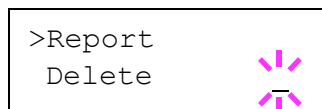
>Arlen
?Report



>Report
Copies 001



>Report
Copies 001



>Report
Delete

Printing Additional Copies using Quick Copy

- 1 Press **▷** while **Job Box >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>Quick Copy** appears. The name entered in the printer driver (**Harold**, in this example) also appears.
- 3 Press **[OK]**. A blinking question mark (?) appears before the user name.
- 4 Press **△** or **▽** to display the desired user name, **Arlen**, in this example.
- 5 Press **[OK]**. The job name entered in the printer driver (**Report**, in this example) appear with a blinking question mark (?) before the letters.
- 6 Press **△** or **▽** to scroll to the desired job title.
- 7 Press **[OK]**. The number of copies to be printed can be set. To increase the copy count, press **△**; to decrease the copy count, press **▽**.
- 8 Press **[OK]** to finalize the copy count. The printer prints the specified number of copies for the job.

Deleting a Quick Copy Job

- 1 Follow steps 1 through 6 in the above section to let the title of the job to be deleted displayed.
- 2 When the title of the job to be deleted is displayed, e.g. **Report**, press **[OK]**. The cursor (**_**) below the copy count starts to blink.
- 3 Press **▽** repeatedly until **Delete** appears below the title.
- 4 Press **[OK]**. The message **Processing** appears and the stored quick copy job is deleted.

Using Proof-and-Hold

When you print multiple copies, this mode first prints one copy so that you can proof it before continuing to print the remaining copies. Since you can proof the printouts before printing the remaining copies, wastage of paper can be reduced.

The printer prints one copy and, at the same time, saves the print job on the hard disk/RAM disk. You can also change the number of copies when resuming printing from the operation panel.

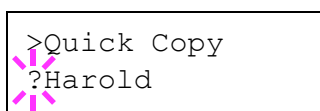
When the printer is turned off, all stored jobs will be deleted.



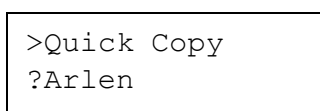
Note Refer to *KX Printer Driver User Guide* for the driver settings.

Printing Remaining Copies of a Proof-and-Hold Job

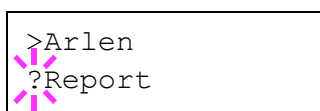
- 1 Press \triangleright while **Job Box >** is displayed.
- 2 Press \triangle or ∇ repeatedly until **>Quick Copy** appears. The name entered in the printer driver (**Harold**, in this example) also appears.
- 3 Press **[OK]**. A blinking question mark (?) appears before the user name.
- 4 Press \triangle or ∇ to display the desired user name, **Arlen**, in this example.
- 5 Press **[OK]**. The job name entered in the printer driver (**Report**, in this example) appear with a blinking question mark (?) before the letters.
- 6 Press \triangle or ∇ to scroll to the desired job title.
- 7 Press **[OK]**. The number of copies to be printed can be set. To increase the copy count, press \triangle to decrease the copy count, press ∇ .
- 8 Press **[OK]** to finalize the copy count. The printer prints the specified number of copies for the job.



>Quick Copy
?Harold



>Quick Copy
?Arlen



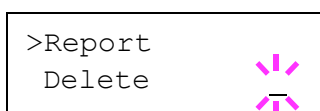
>Arlen
?Report



>Report
Copies 001



>Report
Copies 001



>Report
Delete

Deleting a Proof-and-Hold Job

- 1 Follow steps 1 through 6 in the above section to let the title of the job to be deleted displayed.
- 2 When the title of the job to be deleted is displayed, e.g. **Report**, press **[OK]**. The cursor () below the copy count starts to blink.
- 3 Press ∇ repeatedly until **Delete** appears below the title.
- 4 Press **[OK]**. The message **Processing** appears and the stored job is deleted.

Private/Stored (Printing a private print/stored job)

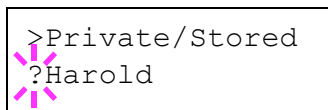
In private printing, you can specify that a job is not printed until you release the job from the operation panel. When sending the job from the application software, specify a 4-digit access code in the printer driver. The job is released for printing by entering the access code on the operation panel ensuring confidentiality of the print job.

In the stored job mode, access codes are not mandatory, but can be set on the printer driver if printing with PIN security is required. Then, the access code must be entered on the operation panel to print a stored job. Print data will be stored in the hard disk/RAM disk after printing.

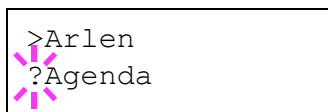
Refer to *KX Printer Driver User Guide* for the driver settings.

Releasing a Private/Stored Job

- 1 Press \triangleright while `Job Box >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Private/Stored` appears. The name entered in the printer driver (`Harold`, in this example) also appears.
- 3 Press **[OK]**. A blinking question mark (?) appears before the user name.
- 4 Press \triangle or ∇ to display the desired user name (`Arlen`, in this example).
- 5 Press **[OK]**. The user name and the job name (`Agenda`, in this example) entered in the printer driver appear with a blinking question mark (?).
- 6 Press \triangle or ∇ to display the desired job title.
- 7 Press **[OK]**. The ID input line appears. Enter the four-digit access code entered in the printer driver and press **[OK]**.
To enter the ID, press \triangleleft or \triangleright to move the cursor to the number to be changed and then enter the correct number by pressing \triangle or ∇ .
- 8 You can set the number of copies to be printed. To increase the copy count, press \triangle ; to decrease the copy count, press ∇ .
- 9 Press **[OK]** to finalize the copy count. The printer prints the specified number of copies for the job.



```
>Private/Stored
?Harold
```



```
>Arlen
?Agenda
```



```
>Agenda
ID      0000
```



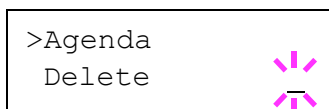
```
>Agenda
Copies  001
```

Deleting a Private/Stored Job

You can individually delete stored jobs by performing the following procedure. Jobs saved using Private Print will be automatically deleted if you turn the power off after printing, but jobs saved using Stored Job will not be deleted automatically.



>Agenda
Copies 001



>Agenda
Delete

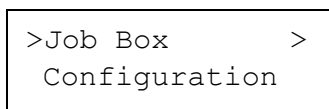
- 1 Follow steps 1 through 6 in the above section.
- 2 When the title of the job to be printed is displayed (Agenda, in this example), press **[OK]**. Enter the four-digit access code entered in the printer driver and press **[OK]**.
- 3 Press ∇ repeatedly until **Delete** appears for the number of copies.
- 4 Press **[OK]**. The private job is deleted.

Job Box Configuration

This allows you to change the number of print jobs that can be stored on the hard disk and disk capacity allocated to each function.

Changing the Maximum Number of Quick Copy

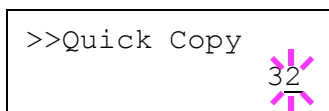
This changes maximum number of Quick Copy from 0 to 50. The default is 32.



>Job Box Configuration >



>>Quick Copy 32



>>Quick Copy 32

- 1 Press \triangleright while **Job Box >** is displayed.
- 2 Press \triangle or ∇ repeatedly until **>Job Box Configuration >** appears.
- 3 Press \triangleright .
- 4 Press \triangle or ∇ repeatedly until **>>Quick Copy** appears.
- 5 Press **[OK]**. A blinking cursor () appears.
- 6 Press \triangle or ∇ to increase or decrease the value at the blinking cursor. The value can be set between 0 and 50. Use \triangleleft and \triangleright to move the cursor right and left.
- 7 When the desired maximum number of jobs is set, press **[OK]**.
- 8 Press **[MENU]**. The display returns to **Ready**.

Counter (Viewing the counter value)

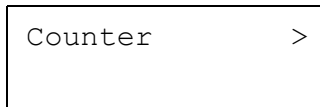
Displays the number of pages printed.

The options available in Counter are as follows:

- Printed Pages (Displaying the total printed pages)
- Color (Displaying the color printed pages)
- Monochrome (Displaying the monochrome printed pages)

1 Press **[MENU]**.

2 Press Δ or ∇ repeatedly until `Counter >` appears.



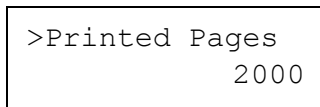
Counter >

Printed Pages (Displaying the total printed pages)

This only displays the total number of pages printed. You cannot change the displayed number.

1 Press \triangleright while `Counter >` is displayed.

2 Press Δ or ∇ repeatedly until `>Printed Pages` appears. The total number of pages printed is displayed. (E.g.: 2000)



>Printed Pages
2000

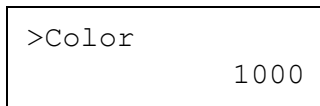
3 Press **[MENU]**. The display returns to `Ready`.

Color (Displaying the color printed pages)

This only displays the number of color pages printed. You cannot change the displayed number.

1 Press \triangleright while `Counter >` is displayed.

2 Press Δ or ∇ repeatedly until `>Color` appears. The total number of pages printed is displayed. (E.g.: 1000)



>Color
1000

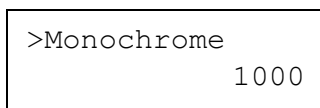
3 Press **[MENU]**. The display returns to `Ready`.

Monochrome (Displaying the monochrome printed pages)

This only displays the number of monochrome pages printed. You cannot change the displayed number.

1 Press \triangleright while `Counter >` is displayed.

2 Press Δ or ∇ repeatedly until `>Monochrome` appears. The total number of pages printed is displayed. (E.g.: 1000)



>Monochrome
1000

3 Press **[MENU]**. The display returns to `Ready`.

Paper Settings

This sets the paper size and type for the MP tray and cassettes from which paper is supplied.

The options available in Paper Settings are as follows:

- MP Tray Size (Setting MP tray paper size)
- MP Tray Type (Setting the MP tray paper type)
- Cassette (1 to 4) Size (Setting the cassette paper size)
- Cassette (1 to 4) Type (Setting the cassette paper type)
- Type Adjust (Creating custom paper type)
- Reset Type Adjust (Resetting the custom paper type)

1 Press **[MENU]**.

2 Press Δ or ∇ repeatedly until `Paper Settings >` appears.

`Paper Settings >`

MP Tray Size (Setting MP tray paper size)

When you use the MP tray, you should set the MP tray size to the paper size that is used to format the job to print. If the sizes do not match, printing will not be performed on the correct size paper.

The default setting is `Letter` size for the U.S. and Canada and `A4` for other countries. For more information about the paper sizes that you can feed from the MP tray, refer to *Paper Specifications on page 2-2*.



Note Feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.

1 Press \triangleright while `Paper Settings >` is displayed.

2 Press Δ or ∇ repeatedly until `>MP Tray Size` appears.

3 Press **[OK]**. A blinking question mark (?) appears.

`>MP Tray Size`
 `A4`

4 Press Δ or ∇ to display the desired paper size. The message display toggles through the following paper sizes:

Env. Monarch
Envelope #10
Envelope #9
Envelope #6
Envelope DL
Envelope C5
A6
B6
A5
B5
ISO B5
A4
Executive
Letter

Legal
Custom
Hagaki
OufukuHagaki
Oficio II
Statement
Folio
Youkei 2
Youkei 4
16K

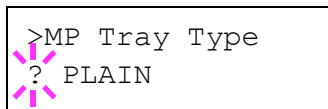
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

MP Tray Type (Setting the MP tray paper type)

You can use this to set the paper type that can be supplied from the MP tray. The default setting is PLAIN.

For more information about paper types that you can feed from the MP tray, refer to *Paper Specifications on page 2-2*.

- 1 Press \triangleright while Paper Settings > is displayed.
- 2 Press \triangle or ∇ repeatedly until >MP Tray Type appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Press \triangle or ∇ to display the desired paper type. The message display toggles through the following paper types:

PLAIN
TRANSPARENCY
PREPRINTED
LABELS
BOND
RECYCLED
VELLUM
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
COATED
THICK
HIGH QUALITY
CUSTOM 1 (to 8)



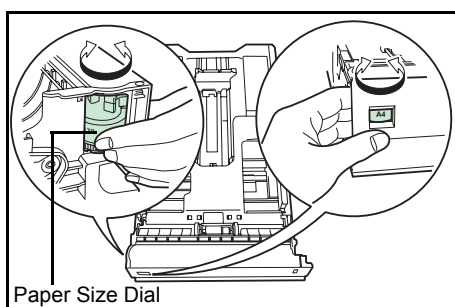
Note You can define any paper type and store that definition in the printer. For more information, refer to *Type Adjust (Creating custom paper type) on page 6-32*.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Cassette (1 to 4) Size (Setting the cassette paper size)

To set the standard sizes A5, A4, B5, Letter, and Legal size for the paper cassette, load the paper and turn the paper size dial so that the size of the paper you are going to use appears in the paper size window. To load a non-standard paper size (sizes other than A5, A4, B5 and Letter) into a paper cassette, refer to the custom paper sizes listed on *page 6-28*.

If the PF-500 or PF-510 optional paper feeder is installed, use the same procedure to load paper into the paper feeder cassettes.



- 1 Pull the cassette out of the printer and set the paper size using the paper size dial.

- 2 Adjust the paper guides in the cassette to the size of the paper to be used for printing and load the paper into the cassette.

Custom Paper Size

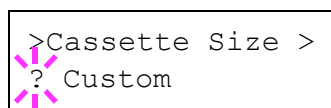
If you use a non-standard size paper, load the paper and turn the paper size dial to **Other** (refer to *Loading Paper on page 2-14*).

Selecting the Size Dial Setting

- 1 Pull the cassette out of the printer and set the paper size dial to **Other**. For details, refer to step 1 in *Cassette (1 to 4) Size (Setting the cassette paper size) on page 6-28*.
- 2 Adjust the paper guides in the cassette to the size of the paper to be used for printing and load the paper into the cassette.

Setting the Paper Size from the Operation Panel

Use the operation panel to set the size of paper loaded in the cassette on the printer. This menu appears if the size dial for the cassette is set to **Other**.



- 1 Press **▷** while **Paper Settings >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>Cassette Size >** appears. If optional paper feeders are added, **Cassette1 Size** will appear for the standard paper cassette and **Cassette2 Size**, **Cassette3 Size**, and **Cassette4 Size** will appear for the optional paper feeders.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Press **△** or **▽** to display the desired paper size. The message display toggles through the following paper sizes:

Env. Monarch
Envelope #10
Envelope #9
Envelope #6
Envelope DL

Envelope C5
A6
B6
A5
B5
ISO B5
A4
Executive
Letter
Legal
Custom
Hagaki
OufukuHagaki
Oficio II
Statement
Folio
Youkei 2
Youkei 4
16K



Note A6 is displayed for Cassette Size or Cassette1 Size.

Env. Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, OufukuHagaki, Youkei 2 and Youkei 4 are displayed when one of cassettes 2 to 4 in the optional paper feeder PF-500/PF-510 is installed.

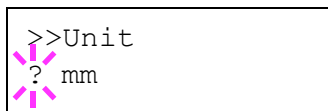
- 5 When the desired paper size is displayed, press **[OK]**. The paper size is set for the paper cassette.

If you selected *Custom* in step 4, be sure to set the unit of measurement and the dimensions of the paper as described in the following sections.

Select the units of measurement as described in the next section.

Unit (Selecting the unit of measurement)

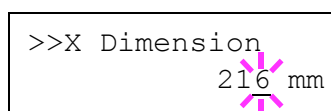
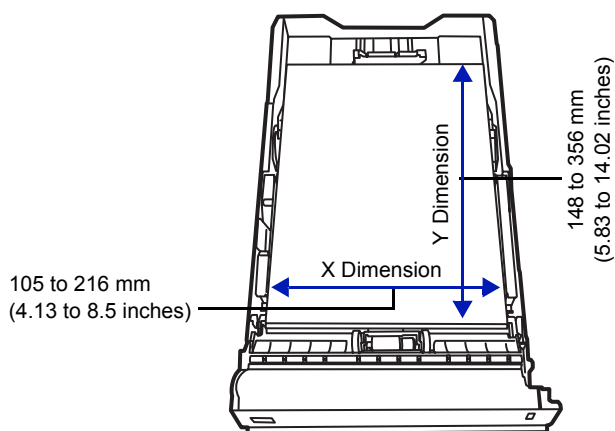
- 1 Press **[>]**.
- 2 Press **[△]** or **[▽]** repeatedly until **>>Unit** appears. The unit of measurement can be selected between millimeters and inches. The current unit of measurement is displayed (the default setting is **mm**).
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select **mm** or **inch** using **[△]** or **[▽]**.
- 5 Press **[OK]**.
Set the dimensions of the paper as described in the next section.

Entering the Width and Length

Enter the paper size for X Dimension and Y Dimension as shown in the figure.



- 1 When the unit of measurement is set, press ∇ .
>>X Dimension appears (the paper width setting).
- 2 Press **[OK]**. A blinking cursor () appears.
- 3 Press \triangle or ∇ to increase or decrease the value of the figure where the cursor is blinking and display the desired width.
Acceptable paper widths are as follows:
 - Cassette : 105 to 216 mm
 - Paper Feeder PF-500/PF-510 (optional) : 92 to 216 mm
- 4 Display the paper width and press **[OK]**.
- 5 When the width is set, press. >>Y Dimension appears (the paper length setting). Set the desired length in the same way as the width.
Acceptable paper lengths are as follows:
 - Cassette : 148 to 356 mm
 - Paper Feeder PF-500/PF-510 (optional) : 162 to 356 mm
- 6 Display the paper length, press **[OK]**.
- 7 Press **[MENU]**. The display returns to Ready.

Cassette (1 to 4) Type (Setting the cassette paper type)

By setting a paper type (plain, recycled, etc.) for the paper cassette, you can automatically select the paper in the paper cassette according to the paper type you command on the printer driver. The default setting is plain paper for all paper cassettes.

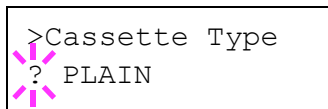
If the PF-500 or PF-510 optional paper feeder is installed, use the same procedure to setting the cassette paper type.

For more information about paper types that you can feed from the paper cassette, refer to *Paper Specifications on page 2-2*.

- 1 Press \triangleright while Paper Settings > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Cassette Type appears.

If optional paper feeders are added, Cassette 1 Type will appear for the standard paper cassette and Cassette 2 Type, Cassette 3 Type, and Cassette 4 Type will appear for the optional paper feeders.

- 3 To change paper type, press [OK]. A blinking question mark (?) appears.



- 4 Press \triangle or ∇ to display the desired paper type. The message display toggles through the following paper types:

PLAIN
PREPRINTED
LABELS
BOND
RECYCLED
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
COATED
THICK
HIGH QUALITY
CUSTOM 1 (to 8)

IMPORTANT LABELS, ENVELOPE, CARDSTOCK, COATED and THICK will only appear when the optional paper feeder PF-510 is installed.



Note You can define any paper type and store that definition in the printer. For more information, refer to *Type Adjust (Creating custom paper type) on page 6-32*.

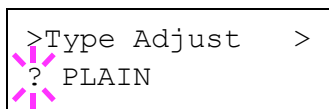
- 5 Press [OK].
- 6 Press [MENU]. The display returns to Ready.

Type Adjust (Creating custom paper type)

The following describes the procedure used to set a user-defined paper type for the printer. Eight custom user settings may be registered. After having been set, any of these may be called up when setting the paper type for a paper source.

The paper weight and duplex path can be set (refer to *Paper Weight (Setting the paper weight)* on page 6-33, and *Duplex Path (Setting the duplex path)* on page 6-33) after selecting the paper type to be customized as follows. For how to reset the customized settings, refer to *Reset Type Adjust (Resetting the custom paper type)* on page 6-33.

- 1 Press \triangleright while `Paper Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Type Adjust >` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>Type Adjust >
? PLAIN
```

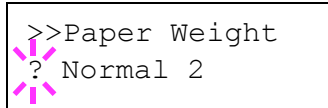
- 4 Press \triangle or ∇ to display the desired paper type. The display changes as shown below.

```
PLAIN
TRANSPARENCY
PREPRINTED
LABELS
BOND
RECYCLED
VELLUM
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
COATED
THICK
HIGH QUALITY
CUSTOM 1 (to 8)
```

- 5 Press **[OK]**.
- 6 Press \triangleright and proceed to the next step *Paper Weight (Setting the paper weight)*.

Paper Weight (Setting the paper weight)

You can set the paper thickness for your custom paper type to be customized. The default setting is `Normal 2`.



```
>>Paper Weight
? Normal 2
```

- 1 Display the custom paper type (refer to *Type Adjust (Creating custom paper type) on page 6-32*) and press \triangleright .
- 2 Press \triangle or ∇ repeatedly until `>>Paper Weight` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

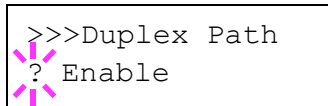
- 4 Press \triangle or ∇ to display the desired paper thickness. The display changes as shown below. For details of the default setting for each paper type, refer to *Paper Specifications on page 2-2*.

```
Light
Normal 1
Normal 2
Normal 3
Heavy 1
Heavy 2
Heavy 3
Extra Heavy
```

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Duplex Path (Setting the duplex path)

- 1 Display the custom paper type (refer to *Type Adjust (Creating custom paper type) on page 6-32*) and press \triangleright .
- 2 Press \triangle or ∇ repeatedly until `>>Duplex Path` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>>>Duplex Path
? Enable
```

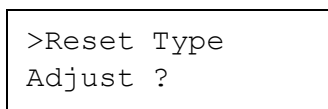
- 4 Select `Enable` or `Disable` using \triangle or ∇ . For details of the default setting for each paper type, refer to *Paper Specifications on page 2-2*.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

The custom paper type setting is completed.

Reset Type Adjust (Resetting the custom paper type)

Reset all the custom paper type that was set in *Type Adjust (Creating custom paper type) on page 6-32*.

- 1 Press \triangleright while `Paper Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Reset Type Adjust` appears.
- 3 Press **[OK]**. A question mark (?) appears.



```
>Reset Type
Adjust ?
```

- 4 Press **[OK]** again. All customized paper types will be reset to the default. The display returns to `Ready`.

Print Settings

These settings specify printing parameters such as the print quality used for printing (Normal or Fine), the gloss mode (Low or High), the number of copies, reduced printing and the page orientation.

The options available in Print settings are as follows:

- Paper Source (Selecting the paper feed source)
- Paper Feed Mode (Setting the paper feed source)
- Duplex (Duplex Printing)
- Override A4/LT (Overriding difference between A4 and Letter)
- Emulation (Setting the emulation)
- Color Mode (Selecting color or monochrome printing)
- Print Quality (Setting print quality)
- Page Set (Setting pagination)

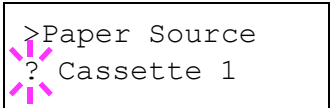


Print Settings >

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Print Settings >` appears.

Paper Source (Selecting the paper feed source)

You can select the paper source, from which the printer feeds paper as the default. If an optional paper feeder(s) is installed, it is also available for the default paper source.



>Paper Source
? Cassette 1

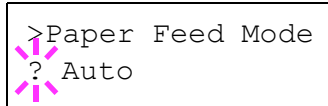
- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Paper Source` appears.
- 3 To change the current paper feed source, press **[OK]**. A blinking question mark (?) appears.
- 4 Press Δ or ∇ to display the desired paper feed source. The message display toggles through the following paper feed sources, depending on the installed optional paper feeders (from the top most paper cassette to the bottom paper cassette):

MP tray
Cassette 1
Cassette 2
Cassette 3
Cassette 4

Cassettes 2, 3 and 4 are available for selection when the optional paper feeders are installed.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Paper Feed Mode (Setting the paper feed source)

This mode specifies how the paper should be fed, after the paper feed source and paper type has been chosen. If `Auto` is selected, the printer searches for a paper feed source that matches the paper size and type, and paper is delivered from that source. An error message is displayed if `Fixed` is selected, but a match is not found. The default setting is `Auto`. To change the settings, follow the steps described below.



- 1 Press `▷` while `Print Settings >` is displayed.
- 2 Press `△` or `▽` repeatedly until `>Paper Feed Mode` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Press `△` or `▽` until `Auto` or `Fixed` appears.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

When the Paper Runs Out During Printing

When `Paper Feed Mode` is set to `Fixed`, if the paper in the cassette runs out during printing, `Load Cassette 1` is displayed and the printer stands by. In this event, either replenish the paper in the empty cassette or use the procedure below to print from another paper source.

- 1 While `Load Cassette 1` is displayed, press `△` or `▽` repeatedly until `Use alternative?` appears.
- 2 Press `△` or `▽` repeatedly until the desired paper source and size appears.
Each time you press `△` or `▽`, another paper cassette or the paper size that can currently be fed from the MP tray appears.
- 3 Press **[OK]**. Printing continues.

Duplex (Duplex printing)

Using the duplexer, you can automatically print on both sides of the paper. The duplexer is mounted underneath the printer.

Duplex printing is available for the following paper types:

PLAIN
PREPRINTED
BOND
RECYCLED
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
HIGH QUALITY

Activating the duplexer is done by selecting either short edge or long edge binding mode.



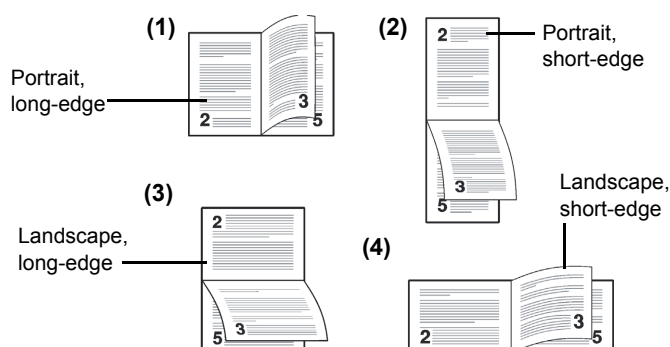
Note Duplex printing can be also performed from the MP tray. If the paper to be fed from the MP tray does not match the paper size and paper type of the current paper feed source cassette, a paper jam may occur.

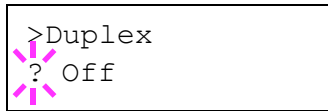
IMPORTANT Duplex printing for coated paper (COATED) is possible if the optional paper feeder PF-510 is installed.

Binding Modes

Binding refers to the manner in which printed pages of paper are joined together (by gluing, stitching, etc.) in book form. The two possible types of binding are: long-edge binding, in which pages are joined together along their long edge; and short-edge binding, in which they are joined together along their short edge. In selecting a binding type, you must also consider the orientation of the printed page. You can use long-edge or short-edge binding with either landscape or portrait printing.

Depending on the binding type and print orientation, the duplexer provides four types of binding. These are: (1) portrait, long-edge, (2) portrait, short edge, (3) landscape, long-edge, and (4) landscape, short-edge. The figure below shows these binding methods.





- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Duplex` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Press \triangle or ∇ to display the desired binding mode. The message display toggles through the following:

`Off (default)`
`Short edge bind`
`Long edge bind`

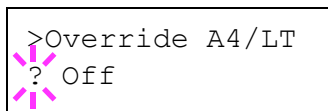
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Override A4/LT (Overriding difference between A4 and Letter)

When the `Override A4/LT` is turned `On` using the operation panel, the printer ignores the difference between A4 and Letter paper sizes. Printing is performed without an error message even if the actual paper size in the current cassette differs from the paper size formatting the job.

By default, this feature is `On`.

- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Override A4/LT` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Emulation (Setting the emulation)

You can change the emulation mode for the current interface. Use the procedure below to select the mode.

```
>Emulation
? KPDL (AUTO)
```

- 1 Press **▷** while `Print Settings >` is displayed.
- 2 Press **△** or **▽** repeatedly until `>Emulation >` appears on the message display. One of the emulation modes appears, indicating the emulation currently in use.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Press **△** or **▽** repeatedly until the desired emulation mode is displayed.

```
PCL 6
KPDL
KPDL (AUTO) (default)
```

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Error Report (Printing KPDL errors)

The printer can print error descriptions when printing error occurs during KPDL emulation. The default is `On` — the printer does not print KPDL errors.

```
>Emulation
? PCL 6
```

```
>Emulation >
? KPDL (AUTO)
```

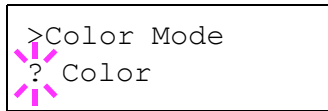
- 1 Press **▷** while `Print Settings >` is displayed.
- 2 Press **△** or **▽** repeatedly until `>Emulation >` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `KPDL` or `KPDL (AUTO)` using **△** or **▽**. Press **[OK]**.

```
>>Error Report
? On
```

- 5 Press **▷**. `>>Error Report` appears.
- 6 Press **[OK]**. A blinking question mark (?) appears.
- 7 Select `On` or `Off` using **△** or **▽**. Press **[OK]**.
- 8 Press **[MENU]**. The display returns to `Ready`.

Color Mode (Selecting color or monochrome printing)

You can use the Color Mode menu on the operation panel to select the Monochrome or Color printing mode. By default, the printer is set to print in color mode.



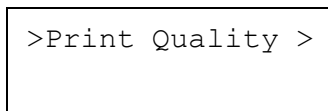
- 1 Press **▷** while `Print Settings >` is displayed.
- 2 Press **△** or **▽** repeatedly until `>Color Mode` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Press **△** or **▽** to change color mode — `Color` or `Monochrome`.
- 5 When the desired color mode is displayed, press **[OK]**. Color mode is changed.
- 6 Press **[MENU]**. The display returns to `Ready`.

Print Quality (Setting print quality)

This selects the gloss mode (Low or High) and whether EcoPrint (low-toner printing) is used for printing.

The options available in Print Quality are as follows:

- Gloss Mode (Selecting the gloss mode)
- EcoPrint Mode (Selecting the EcoPrint mode)



- 1 Press **▷** while `Print Settings >` is displayed.
- 2 Press **△** or **▽** repeatedly until `>Print Quality >` appears.

Gloss Mode (Selecting the gloss mode)

Gloss mode, when set to `High`, increases the effect of glossiness in printing by reducing the printing speed by half. Gloss mode is not available when `LABELS` and `TRANSPARENCY` is selected as the paper type setting.

IMPORTANT Depending on the paper used, printing in gloss mode may cause wrinkle in paper. To reduce wrinkle, try using thicker paper.

Use the procedure below to select Gloss mode. The default setting is `Low`.

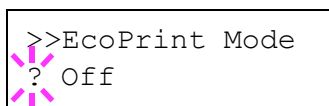


- 1 Press **▷** while `>Print Quality >` is displayed.
- 2 Press **△** or **▽** repeatedly until `>>Gloss Mode` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `Low` or `High` using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

EcoPrint Mode (Selecting the EcoPrint mode)

By enabling EcoPrint mode, you can minimize the amount of toner used during printing. Because images printed in this mode may be slightly coarser than those printed in standard resolution, you should use EcoPrint for test prints or other situations where high-quality prints are not required.

Use the procedure below to select EcoPrint mode. The default setting is Off.



- 1 Press \triangleright while >Print Quality > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>EcoPrint Mode appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select On or Off using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Page Set (Setting pagination)

In Page Set menus, you can set the number of copies, page orientation, and other settings regarding pagination.

The options available in Page Set are as follows:

- Copies (Number of copies)
- Orientation (Print orientation)
- Wide A4 (Wide A4 pitch)



- 1 Press \triangleright while Print Settings > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Page Set > appears.

Copies (Number of copies)

You can set the number of copies of each page to be printed for the current interface.

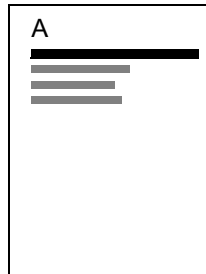


- 1 Press \triangleright while >Page Set > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>Copies appears.
- 3 Press **[OK]**. A blinking cursor () appears.
- 4 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. The number of copies can be set between 1 and 999. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 When the desired size is displayed, press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

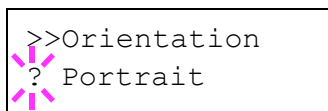
Orientation (Print orientation)

You can select portrait (upright) or landscape (sideways) page orientation.

Portrait Orientation



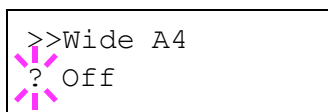
Landscape Orientation



- 1 Press \triangleright while `>Page Set >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Orientation` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `Portrait` or `Landscape` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Wide A4 (Wide A4 pitch)

Turn this to `On` to increase the maximum number of characters that can be printed in a line for an A4 page (78 characters at 10 pitch) and Letter size page (80 characters at 10 pitch). This setting is only effective in PCL 6 emulation.



- 1 Press \triangleright while `>Page Set >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Wide A4` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Network (Network settings)

This printer supports TCP/IP and TCP/IP (IPv6) protocols.

IP is an abbreviation for Internet Protocol. This printer routinely uses the TCP/IP (IPv4) protocol, but provides a separate setting for the next-generation IP, IPv6.

TCP/IP (IPv4) uses 32-bit IP addresses, but the rapid growth in the number of Internet users has resulted in a shortage of IP addresses. IPv6 was developed to expand the range of available IP addresses by using 128-bit IP addresses.

The options available in the Network settings are as follows:

- TCP/IP (IPv4 settings)
- TCP/IP (IPv6) (IPv6 settings)



Note Check with your network administrator when selecting the network setting.



Note After all network related settings have been done, turn the machine OFF and ON again. This is mandatory to make the settings effective!

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Network >` appears.

Network

>

TCP/IP (IPv4 settings)

This selects the settings for TCP/IP (IPv4).

The TCP/IP system refers to the Internet system, which has a 5-layer structure consisting of the interface layer, link layer, network (IP) layer, transport (TCP/UDP) layer and application layer.

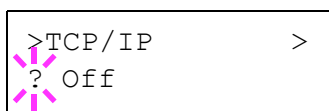
The interface layer is a key layer in the TCP/IP system that provides an abstracted interface that is not dependent on the link (communication line: frame relay or Ethernet, etc.) to the IP module (IP layer). This means that the IP module can use this abstracted interface (which is not dependent on the link type) to exchange IP packets back and forth with the link layer.

The options available in the TCP/IP (IPv4) settings are as follows:

- DHCP (DHCP setting)
- IP Address (IP address setting)
- Subnet Mask (Subnet mask setting)
- Gateway (Gateway setting)
- Bonjour (Bonjour setting)

IMPORTANT The DHCP, IP address, subnet mask, gateway and Bonjour menu options for TCP/IP are displayed when TCP/IP is enabled.

- 1 Press \triangleright while `Network >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>TCP/IP >` appears.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Select **On** or **Off** using Δ or ∇ .

5 Select **On** and press **[OK]**. The display changes to the settings shown below.

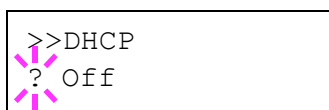
DHCP (DHCP setting)

DHCP (Dynamic Host Configuration Protocol) is the protocol that assigns the information required to establish a network connection when a host attempts to connect to the network (Internet). This information includes the IP address of the local node and the default router (the router in the host's own network system) and the DNS (Domain Name System) server. DHCP is an extension of the BOOTP (Bootstrap) startup protocol.

1 Press \triangleright while **>TCP/IP On >** is displayed.

2 Press Δ or ∇ repeatedly until **>>DHCP** appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select **On** or **Off** using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to **Ready**.

IP Address (IP address setting)

An IP address is the address of a network device such as a computer and is included in IP packets as needed for the sending and receiving of Internet data (IP packets). (IP addresses can be either destination addresses or source addresses.)

Specifically, an IP address is a bit string consisting of a host address (or host section) that identifies a computer (host) connected to the Internet and a network address (or network section) that identifies the network to which that computer belongs (or more specifically, the computer's network interface). Bit strings (IP addresses) that are unique throughout the entire Internet system are allocated to each computer or interface.

The IP addresses currently used on the Internet (IPv4) have a fixed length of 32 bits.

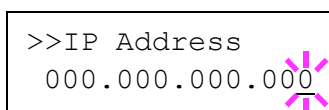


Note When you enter the IP address, be sure to set the **DHCP** setting to **Off**.

1 Press \triangleright while **>TCP/IP On >** is displayed.

2 Press Δ or ∇ repeatedly until **>>IP Address** appears.

3 Press **[OK]**. A blinking cursor () appears.



4 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between **000** and **255**. Use \triangleleft and \triangleright to move the cursor right and left.

- 5 Display the desired IP address and press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Subnet Mask (Subnet mask setting)

The subnet mask is a way of augmenting the network address section of an IP address.

A subnet mask represents all network address sections as 1 and all host address sections as 0. The number of bits in the prefix indicates the length of the network address. The term "prefix" refers to something added to the beginning and, in this context, indicates the first section of the IP address.

When an IP address is written, the length of the network address can be indicated by the prefix length after a forward slash (/). For example, "24" in the address "133.210.2.0/24". In this way, "133.210.2.0/24" denotes the IP address "133.210.2.0" with a 24-bit prefix (network section).

This new network address section (originally part of the host address) made possible by the subnet mask is referred to as the subnet address.



Note When you enter the subnet mask, be sure to set the **DHCP** setting to *Off*.

- 1 Press \triangleright while *>TCP/IP On >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>>Subnet Mask* appears.
- 3 Press **[OK]**. A blinking cursor () appears.

```
>>Subnet Mask
000.000.000.000
```

- 4 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Display the desired subnet mask and press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Gateway (Gateway setting)

Gateway generally refers to a protocol conversion device used to allow networks with differing protocol systems to interconnect.

For example, a "Gateway" device is required to connect a different closed network (using its own protocols) to the open Internet (using TCP/IP).

By installing a gateway, the communications protocols and data display modes on different networks can be made compatible.

On TCP/IP networks, the term gateway is used to refer to routers.



Note Before you input the gateway, be sure to set the **DHCP** setting to *Off*.

- 1 Press \triangleright while *>TCP/IP On >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>>Gateway* appears.
- 3 Press **[OK]**. A blinking cursor () appears.

```
>>Gateway
000.000.000.000
```

- 4 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Display the desired gateway and press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

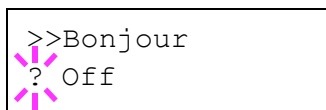
Bonjour (Bonjour setting)

Bonjour, also known as zero-configuration networking, is a service that automatically detects computers, devices and services on an IP network.

Bonjour, because an industry-standard IP protocol is used, allows devices to automatically recognize each other without an IP address being specified or DNS server being set.

Bonjour also sends and receives network packets by UDP port 5353. If a firewall is enabled, the user must check that UDP port 5353 is left open so that Bonjour will run correctly. Some firewalls are set up so as to reject only certain Bonjour packets. If Bonjour does not run stably, check the firewall settings and ensure that Bonjour is registered on the exceptions list and that Bonjour packets are accepted. If you install Bonjour on Windows XP Service Pack 2 or later, the Windows firewall will be set up correctly for Bonjour.

- 1 Press \triangleright while *>TCP/IP On >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>>Bonjour* appears.
- 3 Press **[OK]**. A blinking cursor (`_`) appears.



- 4 Select *On* or *Off* using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

TCP/IP (IPv6) (IPv6 settings)

This selects the settings for TCP/IP (IPv6).

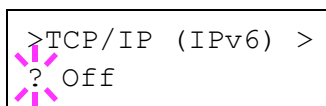
TCP/IP (IPv6) is based on the current Internet protocol, TCP/IP (IPv4). IPv6 is the next-generation Internet protocol and expands the available address space, which resolves the problem of the lack of addresses under IPv4, while also introducing other improvements such as additional security functionality and the capacity to prioritize data transmission.

The options available in the TCP/IP (IPv6) settings are as follows:

- RA(Stateless) (RA (Stateless) setting)
- DHCPv6 (DHCPv6 setting)

IMPORTANT The RA (Stateless) and DHCPv6 menu options for TCP/IP (IPv6) are displayed when TCP/IP (IPv6) is enabled.

- 1 Press \triangleright while *Network >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>TCP/IP (IPv6) >* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



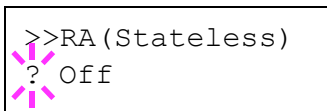
- 4 Select **On** or **Off** using Δ or ∇ .
- 5 Select **On** and press **[OK]**. The display changes to the settings shown below.

RA(Stateless) (RA (Stateless) setting)

The IPv6 router communicates (transmits) information such as the global address prefix using ICMPv6. This information is the Router Advertisement (RA).

ICMPv6 stands for Internet Control Message Protocol, and is a IPv6 standard defined in the RFC 2463 "Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification".

- 1 Press \triangleright while **>TCP/IP (IPv6) On >** is displayed.
- 2 Press Δ or ∇ repeatedly until **>>RA(Stateless)** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



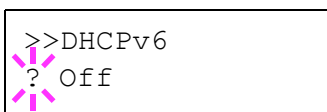
- 4 Select **On** or **Off** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

DHCPv6 (DHCPv6 setting)

DHCPv6 is the next-generation of the Internet's Dynamic Host Configuration Protocol and supports IPv6. It extends the BOOTP startup protocol that defines the protocols used for transferring configuration information to hosts on the network.

DHCPv6 permits the DHCP server to use its expanded functionality to send configuration parameters to an IPv6 node. Because the network addresses that can be used are allocated automatically, the IPv6 node management workload is reduced in systems where the administrator has to exercise close control over IP address allocation.

- 1 Press \triangleright while **>TCP/IP (IPv6) On >** is displayed.
- 2 Press Δ or ∇ repeatedly until **>>DHCPv6** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select **On** or **Off** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Device Common (Selecting/Setting the common device)

Selects/sets all the functions in this printer.

The options available in Device Common are as follows:

- MSG Language (Selecting the message language)
- Buzzer (Alarm (Buzzer) setting)
- RAM Disk Mode (Using the RAM disk)
- Hard Disk (Using the optional hard disk)
- Memory Card (Using the memory card)
- Error Handling (Error detection setting)
- Timer (Timer setting)

1 Press **[MENU]**.

2 Press Δ or ∇ repeatedly until `Device Common >` appears.



Device Common >

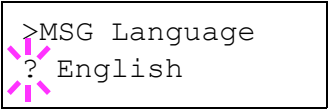
MSG Language (Selecting the message language)

You can select the language of the message display by following the procedure given below. You can optionally download messages in other languages. Contact your service technician for information.

1 Press \triangleright while `Device Common >` is displayed.

2 Press Δ or ∇ repeatedly until `>MSG Language` appears. The default message language is `English`.

3 To change the language, press **[OK]**. A blinking question mark (?) appears.



>MSG Language
? English

4 Press Δ or ∇ . The display cycles through the available selection in the following order:

English
Français
Deutsch
Italiano
Nederlands
Español
Русский
Português

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

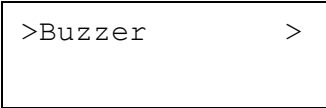
Buzzer (Alarm (Buzzer) setting)

This function uses tones to notify the user of printer operations and the printer status. This setting is useful, for example, when the printer is located some distance from the user.

The options available in Buzzer are as follows:

- Key Confirm. (Key confirmation tone setting)
- Job End (Job completed tone setting)
- Ready (Preparation completed tone setting)
- Error (Error tone setting)

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Buzzer >` appears.



>Buzzer >

Key Confirm. (Key confirmation tone setting)

When `On` is selected in this setting, a tone sounds each time a key is used. The default setting is `On`.

- 1 Press \triangleright while `>Buzzer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Key Confirm.` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



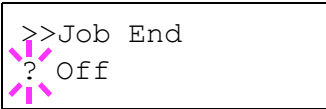
>>Key Confirm.
? On

- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Job End (Job completed tone setting)

When `On` is selected in this setting, a tone sounds when printing ends. The default setting is `Off`.

- 1 Press \triangleright while `>Buzzer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Job End` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



>>Job End
? Off

- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Ready (Preparation completed tone setting)

When **On** is selected in this setting, a tone sounds when print preparation has been completed. The default setting is **Off**.



- 1 Press **▷** while **>Buzzer >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Ready** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Error (Error tone setting)

When **On** is selected in this setting, a tone sounds when a problem such as running out of paper or a paper jam occurs during printing. The default setting is **On**.



- 1 Press **▷** while **>Buzzer >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Error** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

RAM Disk Mode (Using the RAM disk)

The RAM disk is a memory space shared within the printer memory that can temporarily store print jobs. The stored print job can then be used to print multiple copies of the job reducing the total amount of time required to print the whole job. It acts similar to the hard disk except that the data is effective only when the printer is powered up.

To use the RAM disk, activate and enter the desired size of the RAM disk in the manner described below. The maximum RAM disk size can be calculated as follows:

When the RAM disk is activated = The maximum RAM disk size is 16MB (when no options are attached)

When the optional memory is installed = The maximum RAM disk size is 1/2 of the total optional memory installed

To activate RAM disk in the printer's memory, first you must set the RAM disk mode to **On** and set the desired data size for the RAM disk as described in the following section. This allows you to perform the following operations on the RAM disk.



Note The printer supports three types of storage device; memory card, optional hard disk, and RAM disk. The memory card and optional hard disk are installed into the dedicated slots of the printer. The RAM disk is an allocated part of the printer's memory.

IMPORTANT The RAM disk can not be used when an optional hard disk is installed.

The RAM disk stores data only temporarily. When the printer is reset or turned off, the stored data will be erased.

The RAM disk allows some Job Box functions to be used.

The RAM disk is allocated from the printer memory available to users. If the size of the RAM disk is set too large, the printing speed may decrease or the memory may become insufficient.

- 1 Press **▷** while **Device Common >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>RAM Disk Mode >** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

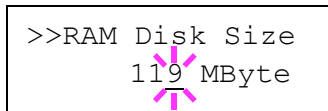


```
>RAM Disk Mode >
? Off
```

RAM Disk Size (Setting the RAM disk size)

Use this procedure to set the amount of memory used for the RAM disk.

IMPORTANT The RAM Disk Size menu option only appears when RAM Disk Mode is set to On.



>>RAM Disk Size
119 MByte

- 1 Press \triangleright while >RAM Disk Mode On > is displayed.
- 2 Press **[OK]**. The message display shows a blinking cursor ($_$). Press \triangle or ∇ to display the desired size. Definable RAM disk size is 001 to 512. Use \triangleleft and \triangleright to move the cursor right and left.
This range varies depending on the total memory size of the printer.
- 3 When the desired RAM disk size is displayed, press **[OK]**.
- 4 Press **[MENU]**. The display returns to Ready. Turn the printer off and then on again. The selected RAM disk size is activated after the printer is restarted.

Hard Disk (Using the optional hard disk)

Installing the optional hard disk into the printer allows you to perform the following operations on the hard disk.

- Format (Formatting hard disk)

When an optional hard disk is inserted into the printer for the first time, it must be formatted before use.

This menu is displayed only when the optional hard disk is installed on the printer.



Note If the optional hard disk is installed in the printer, the Job Box will be available.



>Hard Disk >

- 1 Press \triangleright while Device Common > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Hard Disk > appears.

Format (Formatting hard disk)

A new hard disk must be formatted before it can be used in the printer. Formatting allows data to be written to the hard disk.

This menu is displayed only when the optional hard disk is installed on the printer.



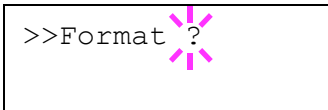
Note Formatting will destroy any existing data on a storage device including a used hard disk.

Formatting of the hard disk must be executed from the printer.

Use the procedure below to format the hard disk.

When a new hard disk is inserted in the printer's slot, `Format error` `Hard disk` will appear on the message display.

- 1 Press `▷` while `>Hard Disk >` is displayed.
- 2 `>>Format` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



`>>Format ?`

- 4 Press **[OK]** again.

`Processing` appears and formatting of the hard disk starts. When the formatting is successfully completed, the display returns to `Ready`.

Memory Card (Using the memory card)

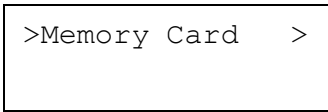
The printer is equipped with a slot for a memory card. By inserting a memory card into the printer, the following operations become available.

- Format (Formatting memory card)

For details about the handling of the memory card, refer to *Memory Card* on page 7-5.

IMPORTANT The Memory Card menu options are only displayed when a memory card is installed in the printer.

- 1 Press `▷` while `Device Common >` is displayed.
- 2 Press `△` or `▽` repeatedly until `>Memory Card >` appears.



`>Memory Card >`

Format (Formatting memory card)

A new memory card must be formatted before it can be used in the printer. Formatting allows data to be written to the memory card.

IMPORTANT Format is only displayed when a memory card is installed in the printer and protection is disabled.



Note Formatting will destroy any existing data on a storage device including a used memory card.

Formatting of the memory card must be executed from the printer.

When a new memory card is inserted in the printer's slot, `Format error` `Memory card` will appear on the message display.

- 1 Press `▷` while `>Memory Card >` is displayed.
- 2 `>>Format` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>>Format ?`

- 4 Press **[OK]**.

`Processing` appears and formatting of the memory card starts.

When the formatting is successfully completed, the display returns to `Ready`.

Error Handling (Error detection setting)

This specifies the settings for the detection methods used for duplex printing errors and for paper size and paper type errors when the paper source is fixed.

The options available in Error Handling are as follows:

- Duplex (Duplex printing error detection setting)
- Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)

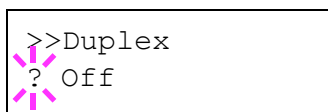
- 1 Press `▷` while `Device Common >` is displayed.
- 2 Press `△` or `▽` repeatedly until `>Error Handling >` appears.

`>Error Handling>`

Duplex (Duplex printing error detection setting)

If the error detection setting for duplex printing has been turned **On**, and you attempt to print onto a paper size and paper type that cannot be used for duplex printing, the **Duplex disabled Press GO** error message will be displayed and printing will stop.

On	<ul style="list-style-type: none">To print onto one-side of the paper only when this message is displayed, press [GO].Press [Cancel] to cancel the printing itself.
Off	<ul style="list-style-type: none">To print onto one-side of the paper.

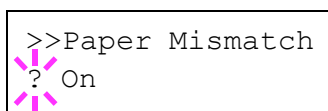


- 1 Press **▷** while **>Error Handling >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Duplex** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)

Turn this setting to **Off** if you want to continue printing even if the paper size or type you specified is different from the fixed paper source, or turn it to **On** to have the paper feed error displayed.



- 1 Press **▷** while **>Error Handling >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Paper Mismatch** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Timer (Timer setting)

This specifies timer-related settings such as the automatic form-feed timeout and the timeout settings for Auto Sleep.

The options available in Timer are as follows:

- Form Feed Time Out (Automatic form feed timeout setting)
- Sleep Timer (Sleep timer timeout time)
- Auto Error Clear (Auto error clear setting)
- Error Clear Timer (Setting the error clear time)
- Auto Panel Reset (Auto panel reset settings)
- Panel Reset Timer (Setting the panel reset timer)
- Auto Sleep (Setting the sleep timer)

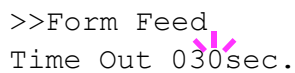


```
>Timer >
```

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Timer >` appears.

Form Feed Time Out (Automatic form feed timeout setting)

If the printer receives no data for a certain period, it will time out and release the current interface. It prints whatever data it has in its buffer and feeds out the page. The default form feed timeout time is 30 seconds.



```
>>Form Feed  
Time Out 030sec.
```

- 1 Press \triangleright while `>Timer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Form Feed Time Out` appears.
- 3 Press **[OK]**. A blinking cursor (`_`) appears.
- 4 Press \triangle or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The timeout time can be between 5 and 495 seconds, in 5-second increments. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

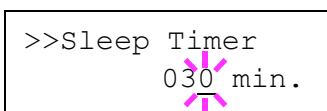
Sleep Timer (Sleep timer timeout time)

You can adjust the length of time the printer waits before entering Auto Sleep in the absence of data.

The printer reverts to normal operation mode when the printer receives a print job, the operation panel is operated, or one of the exterior covers is opened. The default time is 30 minutes.



Note Color calibration is automatically executed before the printer reverts to normal operation mode.



- 1 Press \triangleright while `>Timer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Sleep Timer` appears.
- 3 To change the timeout time, press **[OK]**. A blinking cursor () appears.
- 4 Press \triangle or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The timer can be set between 1 and 240 min. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Auto Error Clear (Auto error clear setting)

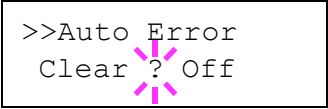
If an error that still allows you to continue printing occurs, the next received data is automatically printed after a set period of time elapses. For example, if the printer is shared over a network as a network printer and one person causes one of the above errors, after the set period of time elapses, the data sent from the next person is printed. The default setting is `Off` (Auto Error Clear disabled).

The auto clear errors are:

- Memory overflow Press GO
- Print overrun Press GO
- KPDL error ## Press GO
- File not found Press GO
- Hard disk err ## Press GO
- RAM disk error## Press GO
- MemoryCard err## Press GO
- Illegal Account Press GO
- Exceeded Max.out Press GO
- Account error ## Press GO
- Duplex disabled Press GO
- Job not stored Press GO
- No multi copies Press GO
- USB memory err## Press GO

For setting the auto error clear recovery time, refer to the next section *Error Clear Timer (Setting the error clear time)*.

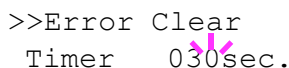
- 1 Press `>` while `>Timer >` is displayed.
- 2 Press `△` or `▽` repeatedly until `>>Auto Error Clear` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `On` or `Off` using `△` or `▽`.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.



>>Auto Error
Clear ? Off

Error Clear Timer (Setting the error clear time)

If Auto Error Clear is set to **On** and a non-fatal error (an error that allows printing to continue) occurs, this setting specifies the time until the error is recovered and printing resumes.



```
>>Error Clear
Timer 030sec.
```

- 1 Press **▷** while **>Timer >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Error Clear Timer** appears.
- 3 Press **[OK]**. A blinking cursor (**_**) appears.
- 4 Press **△** or **▽** to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between 005 and 495 seconds, in 5-second increments. You can use **◀** and **▶** to move the cursor right and left.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Auto Panel Reset (Auto panel reset settings)

The Auto Panel Reset function automatically restores the default settings if the panel is not used for a set time. The default setting is **On**.

For setting the time until the panel is reset, refer to the next section *Panel Reset Timer (Setting the panel reset timer)*.

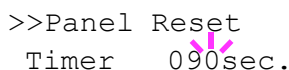


```
>>Auto Panel
Reset ? On
```

- 1 Press **▷** while **>Timer >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Auto Panel Reset** appears.
- 3 Press **[OK]**. A blinking question mark (**?**) appears.
- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Panel Reset Timer (Setting the panel reset timer)

When Auto Panel Reset is set to **On**, this sets the time until the panel is automatically reset after the user stops using the panel.

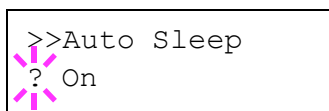


```
>>Panel Reset
Timer 090sec.
```

- 1 Press **▷** while **>Timer >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Panel Reset Timer** appears.
- 3 Press **[OK]**. The message display shows a blinking cursor (**_**).
- 4 Press **△** or **▽** to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between 005 and 495 seconds, in 5-second increments. Use **◀** and **▶** to move the cursor right and left.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

Auto Sleep (Setting the sleep timer)

The printer has a sleep timer that is used to conserve power when the printer is not printing, processing, or receiving data.



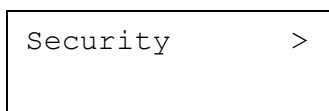
- 1 Press \triangleright while `>Timer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Auto Sleep` appears.
- 3 To turn off the sleep timer, press **[OK]**. A blinking question mark (?) appears.
- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**. The sleep timer is turned off.
- 6 Press **[MENU]**. The display returns to `Ready`.

Security

The security functions can be set up to protect printer operation and the print data.

The options available in Security are as follows:

- ID (Administrator ID input)
- Password (Administrator password input)
- I/F Block (Interface (external device) block setting)
- NetWare (NetWare setting)
- AppleTalk (AppleTalk setting)
- IPP (IPP setting)
- SSL Server (SSL Server setting)
- IPSec (IPSec setting)
- Security Level (Security Level setting)



- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until *Security >* appears.

ID (Administrator ID input)

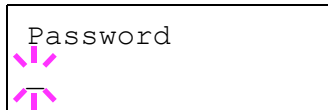
To use the Security function, you must enter an administrator ID. For information on how to set the administrator ID, refer to *Admin (Administrator settings)* on page 6-75.



- 1 Press \triangleright while *Security >* is displayed.
- 2 The message display shows *ID* and a blinking cursor ().
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Security functions, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to *Admin (Administrator settings)* on page 6-75.



- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.



Note If you enter the incorrect administrator ID or password, the message `ID error` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Security screen appears.

I/F Block (Interface (external device) block setting)

You can use this to lock and thereby protect the interface. The options available in Interface Block are as follows:

- USB Host (USB memory slot setting)
- USB Device (USB interface setting)
- Optional interface (Network interface card setting)



- 1 After entering the administrator ID and password, press \triangle or ∇ repeatedly until `>I/F Block` `>` appears.

USB Host (USB memory slot setting)

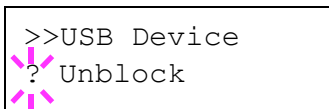
This locks and protects the USB memory slot (USB host). The default setting is `Unblock`.



- 1 Press \triangleright while `>I/F Block` `>` is displayed. `>>USB Host` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select `Block` or `Unblock` using \triangle or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

USB Device (USB interface setting)

This locks and protects the USB interface. The default setting is Unblock.



```
>>USB Device
? Unblock
```

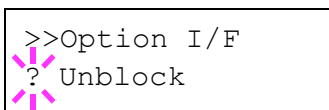
- 1 Press **▷** while **>I/F Block** is displayed. **>>USB Device** appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select **Block** or **Unblock** using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to **Ready**.

Optional Interface (Network interface card setting)

This locks and protects the network interface card (NIC). The default setting is Unblock.



Note Option I/F is displayed only when the optional network interface is installed on the printer.



```
>>Option I/F
? Unblock
```

- 1 Press **▷** while **>I/F Block** is displayed. **>>Option I/F** appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select **Block** or **Unblock** using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to **Ready**.

NetWare (NetWare setting)

NetWare is a PC-based network operating system specifically for servers. NetWare is a client-server system that operates by installing the NetWare OS on the server and dedicated client modules (NetWare clients) on the client machines (running MS-DOS, OS/2, Windows, etc.). The basic network layer protocol used is NetWare's own IPX (Internetwork Packet eXchange)/SPX (Sequenced Packet eXchange), but the system also supports TCP/IP.

The feature of the NetWare OS is that it is specifically for servers, unlike general-purpose operating systems such as Windows NT and UNIX. Only the minimum required for server operation can be performed from the NetWare OS console on the server. Server and file management is basically carried out using management tools from the clients. Also, all drivers and protocol stacks are in the form of modules called NetWare Loadable Modules (NLMS), and the ability of NLMS to load and unload flexibly and dynamically is a major advantage of this system.

The default setting is *On*.



Note Check with your network administrator when selecting network settings.

```
>NetWare >
```

```
>NetWare >  
? On
```

1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>NetWare >` appears.

2 Press **[OK]**. A blinking question mark (?) appears.

3 Select *On* or *Off* using Δ or ∇ .

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

Frame Type (Frame type setting)

Sets the NetWare frame type. Frame is a term referring to a set of data that flows through the network. The default setting is *Auto*.

1 Press \triangleright while `>NetWare On >` is displayed. `>>Frame Type` appears.

2 Press **[OK]**. A blinking question mark (?) appears.

```
>>Frame Type  
? Auto
```

3 Press Δ or ∇ until the desired frame type appears and then press **[OK]**. The message display toggles through the following types:

- *Auto*
- *802.3*
- *Ethernet-II*
- *SNAP*
- *802.2*

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

AppleTalk (AppleTalk setting)

AppleTalk is a communications protocol used primarily on Macintosh computers and also refers to the Mac OS network functions.

AppleTalk assigns 24-bit network addresses (a 16-bit network section and an 8-bit node address) that are used to identify devices (computers, printers, etc.) on the network.

When the power is turned on, a broadcast signal is sent out onto the network and the addresses and machine names are automatically assigned.

The default setting is *On*.



Note Check with your network administrator when selecting network settings.

>AppleTalk

>AppleTalk
? On

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until >AppleTalk appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

IPP (IPP setting)

IPP (Internet Printing Protocol) is a standard that uses TCP/IP networks such as the Internet to enable print jobs to be sent between remote computers and printers.

IPP is an extension of the HTTP protocol used to view websites and enables printing to be carried out via routers on printers in remote locations. It also supports the HTTP authentication mechanisms along with SSL server and client authentication as well as encryption.

The default setting is *Off*.



Note Check with your network administrator when selecting network settings.

>IPP

>IPP
? Off

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until >IPP appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

SSL Server (SSL Server setting)

SSL (Secure Sockets Layer) refers to a protocol used to encrypt information sent and received over a network. SSL can currently be used to encrypt data such as the WWW or FTP files widely used on the Internet so that privacy-related information, credit card numbers, corporate secrets and other confidential information can be sent and received safely.

SSL servers use this protocol to authenticate servers and clients.

The default setting is *Off*.



Note Check with your network administrator when selecting network settings.

```
>SSL Server >
```

```
>SSL Server >  
? Off
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>SSL Server >` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

DES (SSL Server DES setting)

DES (Data Encryption Standard) is a typical symmetric-key cryptographic algorithm that divides data in to 64-bit blocks and then encrypts each block using a 56-bit key.



Note Symmetric-key cryptography, because it uses the same key for both encryption and decryption, uses the same key in both directions when encrypted data is exchanged. Accordingly, to prevent the key from being divulged, key transfer and storage must be very strictly managed.

The default setting is *Off*.

```
>>DES  
? Off
```

- 1 Press \triangleright while `>SSL Server On >` is displayed. `>>DES` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

3DES (SSL Server 3DES setting)

3DES (Triple Data Encryption Standard) is a high level of encryption in which DES encryption is repeated threefold.

The default setting is *Off*.

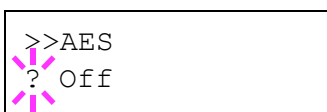


- 1 Press **▷** while *>SSL Server On >* is displayed. *>>3DES* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

AES (SSL Server AES setting)

AES (Advanced Encryption Standard) was developed to replace DES as the standard encryption as the safety of DES has declined. AES is a block encryption system that uses 128-bit blocks and an SPN structure (a typical structure for repeated encryption) with three selectable key lengths of 128, 192 and 256 bits.

The default setting is *Off*.

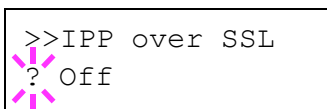


- 1 Press **▷** while *>SSL Server On >* is displayed. *>>AES* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

IPP over SSL (SSL Server IPP over SSL setting)

IPP over SSL is an encryption function that uses SSL for communications between users and servers in network printing. To use IPP over SSL, both server and client must support the protocol.

The default setting is *Off*.



- 1 Press **▷** while *>SSL Server On >* is displayed. *>>IPP over SSL* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

HTTPS (SSL Server HTTPS setting)

HTTPS (HyperText Transfer Protocol Secure) is a protocol that adds SSL data encryption, message authentication and a digital signature function to the HTTP protocol used for data transfer between WWW servers and clients.

S-HTTP is a similar protocol, but HTTPS differs in that it uses SSL.

The default setting is *Off*.



- 1 Press **▷** while *>SSL Server On >* is displayed. *>>HTTPS* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

IPSec (IPSec setting)

IPSec (IP Security Protocol) is a security protocol adopted as the standard by the IETF for authentication and encryption in the third network layer (IP layer).

It can be used with both IPv4 and IPv6.



Note IPv4 uses 32-bit IP addresses and IPv6 uses 128-bit IP addresses.

The default setting is *Off*.



Note Check with your network administrator when selecting network settings.



- 1 After entering the administrator ID and password, press **△** or **▽** repeatedly until *>IPSec* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using **△** or **▽**.
- 4 Press **[OK]**.
- 5 Press **[Menu]**. The display returns to *Ready*.

Security Level (Security Level setting)

Security Level is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

Job Accounting (Job Accounting selection/setting)

Job Accounting is a function that allows the number of pages used to be managed by each department to be managed through the use of entered account IDs.

Job accounting on this machine offers the following features:

- Support for up to 100 departments
- Department codes up to 8 digits long from 1 to 99999999
- Collective print management for the same department code
- Totaling of the number of pages used for each department
- Specifiable limits (1 to 9,999,999) on the number of pages used
- Resetting of the number of pages used for individual departments

The options available in Job Accounting are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Job Accounting (Job Accounting selection/setting)
- Select Account (Department-specific settings)
- Add Account (Department Registration)
- Delete Account (Department Removal)
- Print Job Accounting List (Job Accounting list output)

IMPORTANT *Select Account* and *Delete Account* are only displayed if one or more department codes have been registered. Also, *Add Account* is not displayed if the number of registered accounts has already reached the permitted maximum.

- 1 Press **[MENU]**.
- 2 Press \triangle or ∇ repeatedly until *Job Accounting >* appears.



Job Accounting >

ID (Administrator ID input)

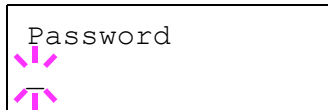
To set up Job Accounting, you must enter an administrator ID. For information on how to set the administrator ID, refer to *Admin (Administrator settings)* on page 6-75.

- 1 Press \triangleright while *Job Accounting >* is displayed.
- 2 The message display shows *ID* and a blinking cursor ($_$).
- 3 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.



Password (Administrator Password input)

To set up Job Accounting, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to *Admin (Administrator settings)* on page 6-75.



- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).

- 2 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 and 16 numbers.



Note If you enter the incorrect administrator ID or password, the message `ID error` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Job Accounting selection/setting screen reappears.

Job Accounting (Job Accounting selection/setting)

This allows you to turn the Job Accounting function `On` and `Off`. The default setting is `Off`.



- 1 After entering the administrator ID and password, press \triangle or ∇ repeatedly until `>Job Accounting` appears.

- 2 Press **[OK]**. A blinking question mark (?) appears.

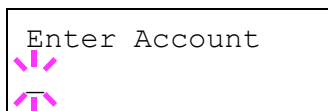
- 3 Select `On` or `Off` using \triangle or ∇ .

- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to `Ready`.

Job Accounting Enabled

If department administration is enabled, an account ID entry screen appears each time you retrieve a status page or list.



- 1 A blinking cursor (`_`) appears in the account ID entry screen.

- 2 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified account ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an account ID consisting of between 1 and 8 numbers.



Note If you enter an incorrect account ID, the input screen reappears. Re-enter the account ID correctly.

- 3 Press **[OK]**. The account is confirmed and printing begins.

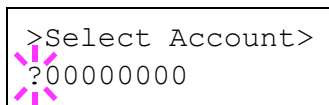
Select Account (Department-specific settings)

This specifies the functions used for managing individual account IDs.

The options available in Select Account are as follows:

- Counter (Account-specific counter management [color + monochrome total])
- Color Counter (Account-specific counter management [color])
- Restriction (Print restriction selection [color + monochrome total])
- Color Restrict (Print restriction selection [color])
- Maximum Output (Maximum print output setting [color + monochrome total])
- Color Max.out (Maximum print output setting [color])
- Reset Counter (Counter reset)

- 1 Press \triangleright while `Job Accounting >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Select Account>` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



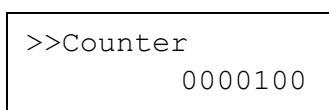
```
>Select Account>
?00000000
```

- 4 Each time you press \triangle or ∇ , the next registered account ID in the sequence appears.
- 5 Display the desired account ID and press **[OK]**. Press \triangleright , the display changes to the individual department setting screen.

Counter (Account-specific counter management [color + monochrome total])

Displays the total number of pages printed for the currently selected account.

IMPORTANT You can only view the counter. You cannot change it.



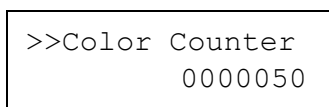
```
>>Counter
      0000100
```

- 1 Set the account ID and then press \triangle or ∇ repeatedly until `>>Counter` appears. (E.g.: 100)
The counter shows a number between 0000000 and 9999999.
- 2 Press **[MENU]**. The display returns to `Ready`.

Color Counter (Account-specific counter management [color])

Displays the total number of color pages printed for the currently selected account.

IMPORTANT You can only view the counter. You cannot change it.

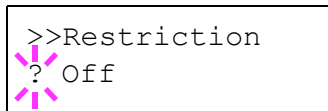


```
>>Color Counter
      0000050
```

- 1 Set the account ID and then press \triangle or ∇ repeatedly until `>>Color Counter` appears. (E.g.: 50)
The counter shows a number between 0000000 and 9999999.
- 2 Press **[MENU]**. The display returns to `Ready`.

Restriction (Print restriction selection [color + monochrome total])

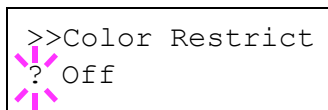
Sets restricted functionality for all printing on the currently selected account. You can use the restrictions to prohibit printing by individual departments or to limit the number of pages they can print.



- 1 Set the account ID and then press Δ or ∇ repeatedly until >>Restriction appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ repeatedly to select the desired restriction. The displayed restrictions are as follows:
 - Off (no restrictions)
 - Counter Limit (to limit the number of pages)
 - Reject Usage (to prohibit printing)
- 4 Press **[OK]**. The restriction is set.
- 5 Press **[MENU]**. The display returns to Ready.

Color Restrict (Print restriction selection [color])

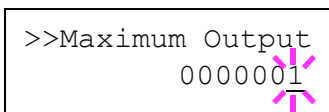
Sets restricted functionality for color printing on the currently selected account. You can use the restrictions to prohibit printing by individual departments or to limit the number of pages they can print.



- 1 Set the account ID and then press Δ or ∇ repeatedly until >>Color Restrict appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ repeatedly to select the desired restriction. The displayed restrictions are as follows:
 - Off (no restrictions)
 - Counter Limit (to limit the number of pages)
 - Reject Usage (to prohibit printing)
- 4 Press **[OK]**. The restriction is set.
- 5 Press **[MENU]**. The display returns to Ready.

Maximum Output (Maximum print output setting [color + monochrome total])

Limits the number of pages for all printing on the currently selected account.

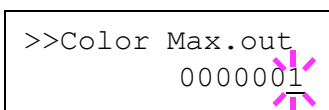


>>Maximum Output
0000001

- 1 Set the account ID and then press Δ or ∇ repeatedly until >>Maximum Output appears.
- 2 Press **[OK]**. The message display shows a blinking cursor (_).
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Set the desired number of pages. You can set a number between 0000001 and 9999999 as the number of pages. Use \triangleleft and \triangleright to move the cursor right and left.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to Ready.

Color Max.out (Maximum print output setting [color])

Limits the number of pages for color printing on the currently selected account.

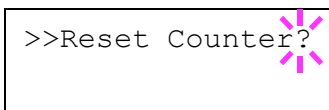


>>Color Max.out
0000001

- 1 Set the account ID and then press Δ or ∇ repeatedly until >>Color Max.out appears.
- 2 Press **[OK]**. The message display shows a blinking cursor (_).
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Set the desired number of pages. You can set a number between 0000001 and 9999999 as the number of pages. Use \triangleleft and \triangleright to move the cursor right and left.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to Ready.

Reset Counter (Counter reset)

Resets the counter (pages used) for the currently selected account.



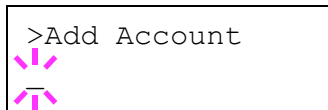
>>Reset Counter?

- 1 Set the account ID and then press Δ or ∇ repeatedly until >>Reset Counter appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press **[OK]** again. The counter is reset.
- 4 Press **[MENU]**. The display returns to Ready.

Add Account (Department registration)

This allows you to add a new account for which printing is permitted.

IMPORTANT Because account IDs are managed as numeric strings, "1" and "001" are handled as different accounts. Also, once Job Accounting is enabled, no jobs are printed unless information is attached showing the accounts from which the jobs are being printed.



- 1 Press \triangleright while `Job Accounting >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Add Account` appears.
- 3 Press **[OK]**. The message display shows a blinking cursor ($_$).
- 4 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Set the desired account ID. You can set a number between 1 and 8 digits. Use \triangleleft and \triangleright to move the cursor right and left.



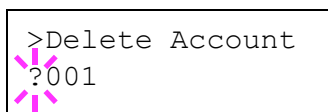
Note If you enter an existing account ID, `Wrong Account` is displayed and the input screen reappears. Re-enter the new account ID.

- 5 Press **[OK]**. Account registration ends.
- 6 Press **[MENU]**. The display returns to `Ready`.

Delete Account (Department removal)

You can use this to delete a registered account.

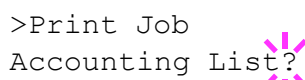
IMPORTANT Because account IDs are managed as numeric strings, "1" and "001" are handled as different accounts. Also, once Job Accounting is enabled, no jobs are printed unless information is attached showing the accounts from which the jobs are being printed.



- 1 Press \triangleright while `Job Accounting >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Delete Account` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears. (E.g.: 001)
- 4 Each time you press \triangle or ∇ , the next registered account ID in the sequence appears.
- 5 Display the desired account ID and press **[OK]**. The account ID is deleted.
- 6 Press **[MENU]**. The display returns to `Ready`.

Print Job Accounting List (Job Accounting list output)

This enables you to print the total number of pages for all accounts as a Job Accounting list.



>Print Job
Accounting List?

- 1 Press \triangleright while Job Accounting > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Print Job Accounting List appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 When you press **[OK]** again, Processing appears and printing begins.
- 5 Press **[MENU]**. The display returns to Ready.

Admin (Administrator settings)

The administrator setting is a function that identifies the user who can use the printer and can be used to manage users. The administrator is authenticated by the entered administrator ID and password and can then use the printer's security functions and Job Accounting functions.

The options available in Admin are as follows:

- ID (Administrator ID input)
- Password (Administrator password input)
- Change ID (Administrator ID change)
- Change Password (Administrator password change)

1 Press **[MENU]**.

2 Press \triangle or ∇ repeatedly until `Admin >` appears.



ID (Administrator ID input)

You can use this to set the administrator ID. The default setting is the numeric part of your printer's model name. If you use CLP 4626, enter "5300".

1 Press \triangleright while `Admin >` is displayed.

2 The message display shows `ID` and a blinking cursor (`_`).

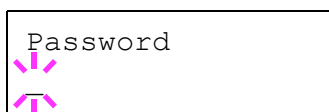


3 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

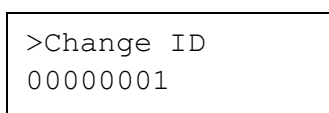
You can use this to set the administrator password. The default setting is the numeric part of your printer's model name. If you use CLP 4626, enter "5300".



- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows *Password* (Administrator password input) and a blinking cursor ().
- 2 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 and 16 numbers.



Note If you enter the incorrect administrator ID or password, the *Wrong ID* or *Wrong Password* message appears and the input screen then reappears. Re-enter the ID or password correctly.



- 3 Once you enter the correct ID and password, the *Admin (change)* screen appears. (E.g.: Where the administrator ID is 00000001) Each time you press Δ or ∇ , the following settings to be changed appear in succession.
 - Change ID
 - Change Password

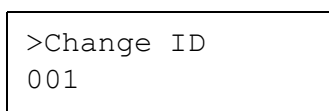


Note If a change is required, refer to the procedures in *Change ID (Administrator ID change)* and *Change Password (Administrator Password change)* below.

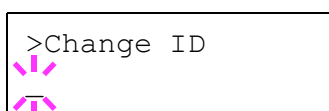
- 4 Press **[OK]** again. The administrator ID and password are confirmed.
- 5 Press **[MENU]**. The display returns to *Ready*.

Change ID (Administrator ID change)

You can use this to change the administrator ID.



- 1 In step 3 in *Password (Administrator Password input)* above, press Δ or ∇ while the *Admin (Change)* screen is displayed until *>Change ID* appears. (E.g.: Where the administrator ID is 001)



- 2 When you press **[OK]**, a blinking cursor () appears.
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the ID to be changed. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.



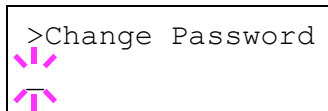
- 4 Press **[OK]**. A confirmation screen appears. (E.g.: Where the administrator ID is changed to 002)
- 5 Press **[OK]**. The new administrator ID is confirmed.
- 6 Press **[MENU]**. The display returns to *Ready*.

Change Password (Administrator Password change)

You can use this to change the administrator password.



>Change Password



>Change Password



OK?
010

- 1 In step 3 in *Password (Administrator Password input)* above, press Δ or ∇ while the *Admin (Change)* screen is displayed until >Change Password appears.

IMPORTANT The administrator password is not displayed.

- 2 Press **[OK]**. A blinking cursor ($_$) appears.
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the password to be changed. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 and 16 numbers.
- 4 Press **[OK]**. A confirmation screen appears. (E.g.: Where the administrator password is changed to 010)
- 5 Press **[OK]**. The new administrator password is confirmed.
- 6 Press **[MENU]**. The display returns to Ready.

Adjust/Maintenance (Adjust/Maintenance selection/setting)

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Color Calibration
- Registration Normal (Color registration [standard])
- Registration Details (Color registration [detailed])
- Restart Printer
- Service (for maintenance)

IMPORTANT *Service* is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Adjust/Maintenance >` appears.

`Adjust/
Maintenance >`

Color Calibration

This printer contains a calibration function that automatically makes adjustments to compensate for changes that occur over time due to variations in the ambient temperature and humidity. So that the highest quality color printing can be maintained, this color calibration operation is carried out automatically each time the power to the printer is turned on. The color calibration operation may be carried out automatically during recovery from the Auto Sleep or during printing.

- 1 Press \triangleright while `Adjust/Maintenance >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Color Calibration` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>Color
Calibration ?`

- 4 Press **[OK]** again. The message display shows `Please wait (Calibrating)` and calibration will start.
- 5 When calibration is finished, the display returns to `Ready`.

Registration Normal (Color registration [standard])

When using the printer for the first time after set-up or after having moved it, or if printout of any color (magenta, cyan or yellow) is skewed, use this mode to correct the color registration on the operation panel.

The options available in Registration Normal (Color registration (standard)) are as follows:

- Print Registration Chart (Printing the color registration correction chart)
- Adjust Magenta
- Adjust Cyan
- Adjust Yellow

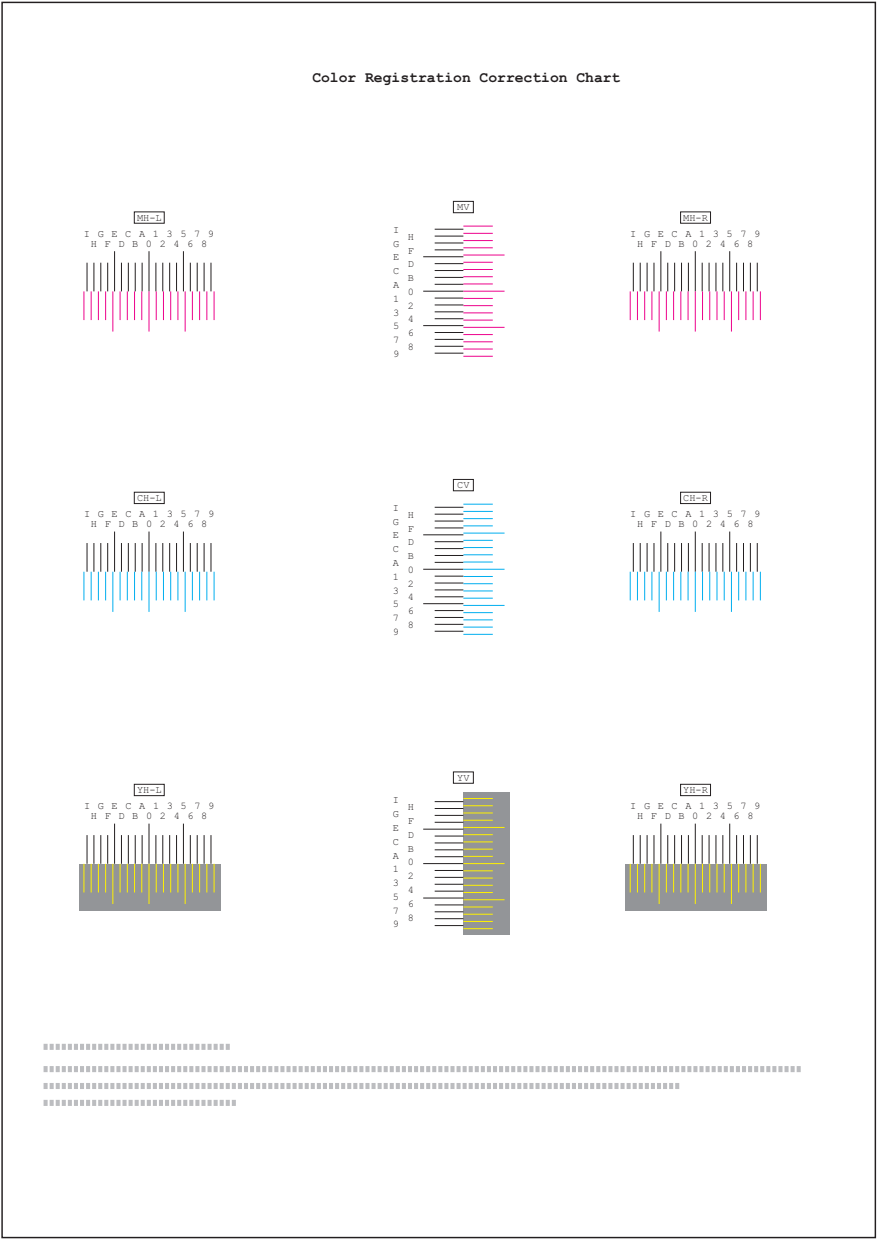
Print Registration Chart (Printing the color registration correction chart)

You can use this option to print a color registration correction chart for use in correcting the color registration.

- 1 Press \triangleright while `Adjust/Maintenance >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Registration Normal >` appears.
- 3 Press \triangleright .
- 4 Press \triangle or ∇ repeatedly until `>>Print Registration Chart` appears.
- 5 Press **[OK]**. A question mark (?) appears.
- 6 Press **[OK]**. `Processing` appears and a color registration correction chart is printed out. There are left (L), vertical (V) and right (R) registration charts for each color (magenta, cyan and yellow) included on the color registration correction chart.

`>>Print Registration Chart ?`

Sample Color Registration Correction Chart

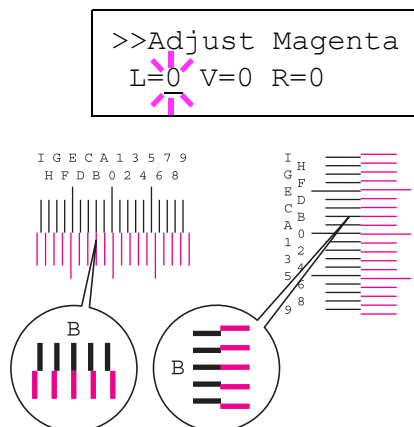


7 When printing ends, the display returns to Ready.

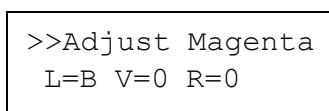
Adjust Magenta

Corrects the registration for magenta (red).

- 1 Press \triangleright while Adjust/Maintenance > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Registration Normal > appears.
- 3 Press \triangleright .
- 4 Press \triangle or ∇ repeatedly until >>Adjust Magenta appears.
- 5 Press **[OK]**. 0 will be displayed for each value and the cursor () will flash under the left (L) value.



- 6 Look at the left chart (L) in the magenta portion of the color registration correction chart. Find the two lines that most seem to overlap as a single straight line and note the number value listed there. In the left example, the value would be B.



- 7 Press \triangle or ∇ until that value is displayed.
- 8 Use \triangleleft and \triangleright to move the cursor right and left. Perform the same operation as you did for the left (L) value in order to find the vertical (V) and right (R) values for magenta in the color registration correction chart, and select those values on the operation panel as well.
- 9 Press **[OK]**. OK? and each of the entered values will be displayed. If the displayed values are correct, press **[OK]**.

Now continue to the settings for cyan and yellow.

Adjust Cyan (Cyan correction) and Adjust Yellow (Yellow correction)

These options correct the registration for cyan (blue) and yellow.

- 10 After completing the settings for magenta in step 9 above, press ▽.
>>Adjust Cyan will be displayed and, once you complete the settings for that color, >>Adjust Yellow will be displayed. Perform the same operation as you did for the magenta chart in order to find the values for cyan and yellow in the color registration correction chart, and perform those settings in the same way.
- 11 Once you have completed the settings for all 3 colors, press [MENU].
The display returns to Ready.

This completes the standard color registration correction.



Note As confirmation, try printing the color registration correction chart again. If the section where the lines most closely coincide as a single straight line is not 0, redo the settings again from step 4 above.

IMPORTANT If the problem of skewed-color printout still persists even after correcting the color registration, call for service.

Registration Details (Color registration [detailed])

This allows you to make fine horizontal and vertical adjustments to the color registration corrections.

The options available in Registration Details (Color registration (detailed)) are as follows:

- Print Registration Chart (Printing the color registration correction chart)
- M 12345 3 (Adjust magenta)
- C 12345 3 (Adjust cyan)
- Y 12345 3 (Adjust yellow)

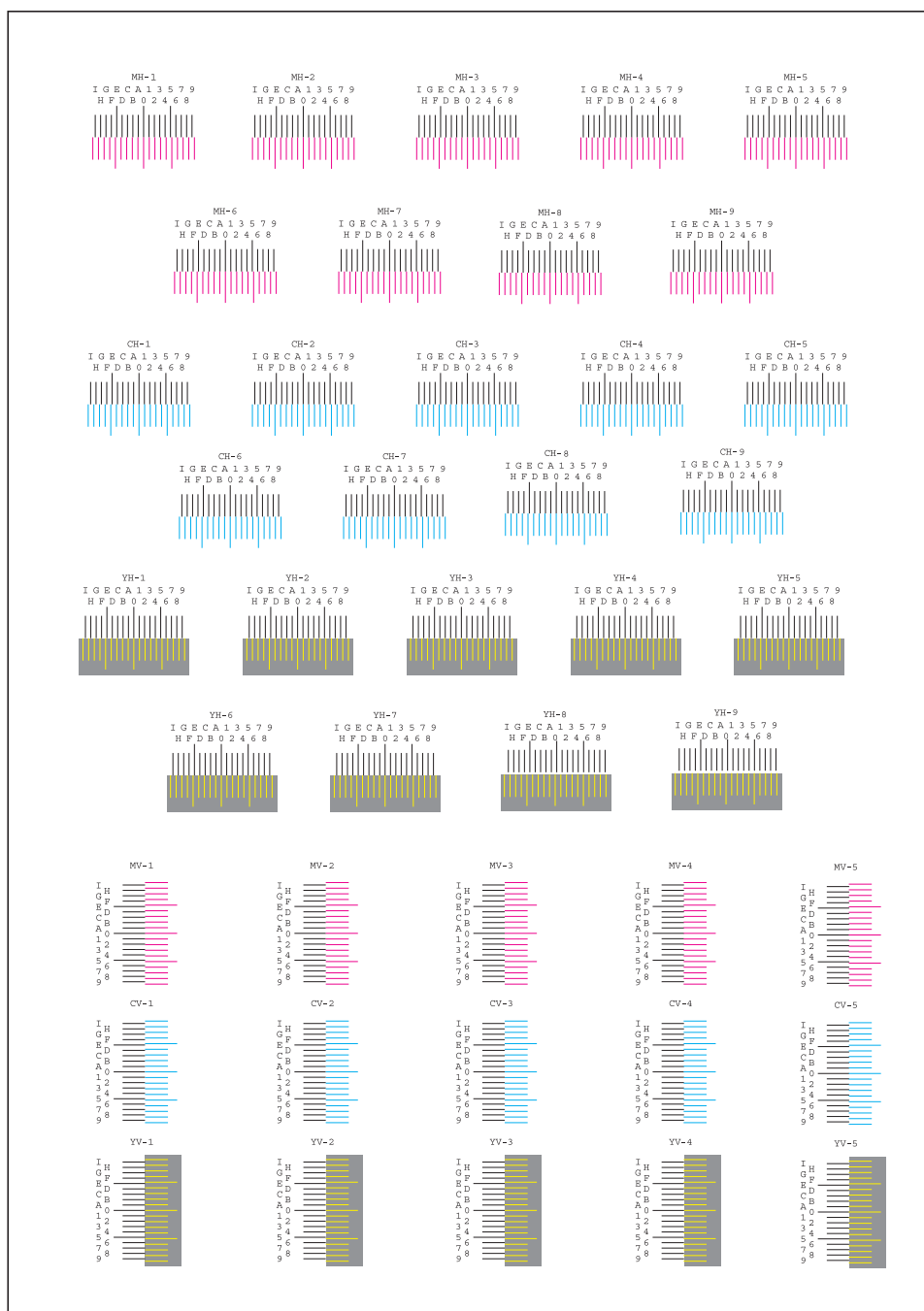
Print Registration Chart (Printing the color registration correction chart)

You can use this option to print a color registration correction chart for use in correcting the color registration.

- 1 Press ▷ while Adjust/Maintenance > is displayed.
- 2 Press △ or ▽ repeatedly until >Registration Details > appears.
- 3 Press ▷.
- 4 Press △ or ▽ repeatedly until >>Print Registration Chart appears.
- 5 Press [OK]. A question mark (?) appears.

>>Print Registration Chart ?

- 6 Press **[OK]**. Processing appears and a color registration correction chart is printed out. There are horizontal (H) and vertical (V) registration charts for each color (magenta, cyan and yellow) included on the color registration correction chart.

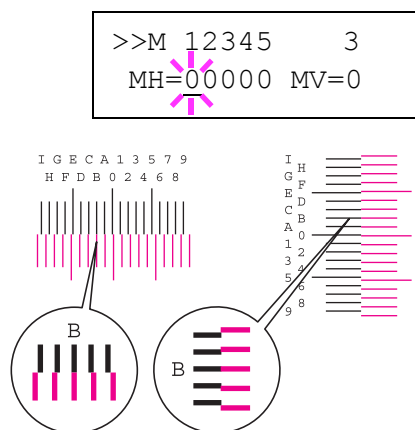


- 7 When printing ends, the display returns to Ready.

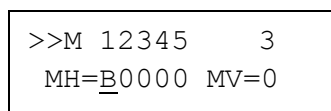
M 12345 3 (Adjust magenta)

Makes detailed corrections to the registration for magenta (red).

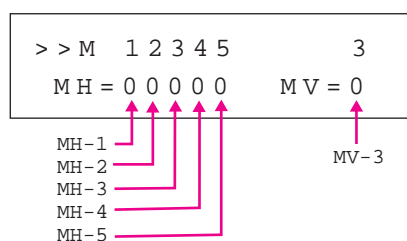
- 1 Press \triangleright while Adjust/Maintenance > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Registration Details > appears.
- 3 Press \triangleright .
- 4 Press \triangle or ∇ repeatedly until >>M 12345 3 appears.
- 5 Press **[OK]**. 00000 or 0 will be displayed for each value and the cursor () will flash under the H value.



- 6 In the color registration correction chart printed in Print Registration Chart above, note the numbers of the sections in the magenta H and V charts where the lines most closely coincide as a single straight line. In the left example, the value would be B.



- 7 Press \triangle or ∇ until that value is displayed.



- 8 Use \triangleleft and \triangleright to move the cursor right and left. Perform the same operation as you did for the H value in order to find the V values in the color registration correction chart, and select those values on the operation panel as well.
- 9 Press **[OK]**. OK? and each of the entered values will be displayed. If the numbers shown are correct, press **[OK]**. This completes the settings for magenta.

Now continue to the settings for cyan and yellow.

C 12345 3 (Cyan correction) and Y 12345 3 (Yellow correction)

These options make detailed corrections to the registration for cyan (blue) and yellow.

- 10 After completing the settings for magenta in step 9 above, press the ∇ key. `>>C 12345 3` and `>>Y 12345 3` are displayed. As with magenta, note down the values for cyan and yellow from the color registration correction chart.
- 11 After completing the settings for all three colors, press **[MENU]**. The display returns to `Ready`.

This completes the detailed color registration correction.



Note As confirmation, try printing the color registration correction chart again. If the section where the lines most closely coincide as a single straight line is not 0, redo the settings again from step 4 above.

IMPORTANT If the problem of skewed-color printout still persists even after correcting the color registration, call for service.

Restart Printer

The procedure described below resets the printer's temporary conditions, such as the current page orientation, font, etc., set by commands to their default values. Downloaded fonts and macros are deleted from the printer's memory.

- 1 Press \triangleright while `Adjust/Maintenance >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Restart Printer` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>Restart
Printer ?`

- 4 Press **[OK]** again. `Self test` appears while the printer is resetting itself, followed by `Please wait` and then `Ready`.

Service (for maintenance)

The options available in Service are as follows:

- Print Status Page (Printing the service status page)
- Print Network Status Page (Printing the network status page)
- Print Test Page
- Maintenance (New Maintenance Kit replacement confirmation setting)
- DEV-CLN (Developer/Refresh mode setting)
- LSU/Charger (LSU/Main charger cleaning mode setting)
- Drum (Drum/Refresh mode setting)

IMPORTANT *Service* is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

- 1 Press \triangleright while *Adjust/Maintenance* \triangleright is displayed.
- 2 Press \triangle or ∇ repeatedly until *>Service >* appears.

>Service >

Print Status Page (Printing the service status page)

The service status page contains printer settings information that is more detailed than the standard status page and is therefore mostly for service purposes. However, there is a great deal of information on the service status page that may be useful to you.

- 1 Press \triangleright while *>Service >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>>Print Status Page* appears.
- 3 Press **[OK]**. A question mark (?) appears.

*>>Print
Status Page ?*

- 4 Press **[OK]** again. *Processing* appears and a service status page is printed out.
- 5 When printing ends, the display returns to *Ready*.

Print Network Status Page (Printing the network status page)

The network status page contains detailed information on the network settings. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

- 1 Press \triangleright while *>Service >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>>Print Network Status Page* appears.
- 3 Press **[OK]**. A question mark (?) appears.

*>>Print Network
Status Page ?*

- 4 Press **[OK]** again. *Processing* appears and a network status page is printed out.
- 5 When printing ends, the display returns to *Ready*.

Print Test Page

The test page is printed to check the effectiveness of printer adjustments. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

>>Print
Test Page ?

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>Print Test Page appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. Processing appears and a test page is printed out.
- 5 When printing ends, the display returns to Ready.

Maintenance (New Maintenance Kit replacement confirmation setting)

This specifies the setting for confirmation of replacement with the new Maintenance Kit (resets the total number of Maintenance Kit print images). This is primarily used for maintenance by service personnel. (CLP 4621 and CLP 4626 only)



Note The Maintenance menu is displayed only when Install MK appears.

>>Maintenance ?

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>Maintenance appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. The confirmation of replacement with the new Maintenance Kit is set.
- 5 When the replacement ends, the display returns to Ready.

DEV-CLN (Developer/Refresh mode setting)

This sets the refresh mode for the developer. When the printing quality declines, refreshing the developer can restore the printing quality. This is primarily used for maintenance by service personnel.

>>DEV-CLN ?

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>DEV-CLN appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. Developer refreshing begins and Please wait is displayed.
- 5 When refreshing ends, the display returns to Ready.

LSU/Charger (LSU/Main charger cleaning mode setting)

This sets the cleaning mode for the LSU/Main charger. When the printing quality declines, cleaning the LSU/Main charger can restore the printing quality. This is primarily used for maintenance by service personnel.

>>LSU/Charger ?

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>LSU/Charger appears.
- 3 Press **[OK]**. A question mark (?) appears.

- 4 Press **[OK]** again. LSU/Main charger cleaning mode begins and Please wait (Cleaning) is displayed.
- 5 When cleaning ends, the display returns to Ready.

Drum (Drum/Refresh mode setting)

This sets the refresh mode for the drum. When the printing quality declines, refreshing the drum can restore the printing quality. This is primarily used for maintenance by service personnel.

>>Drum ?

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>Drum appears.
- 3 Press **[OK]**. A question mark (?) appears.

- 4 Press **[OK]** again. Drum refreshing begins and Please wait is displayed.
- 5 When refreshing ends, the display returns to Ready.

7 Options

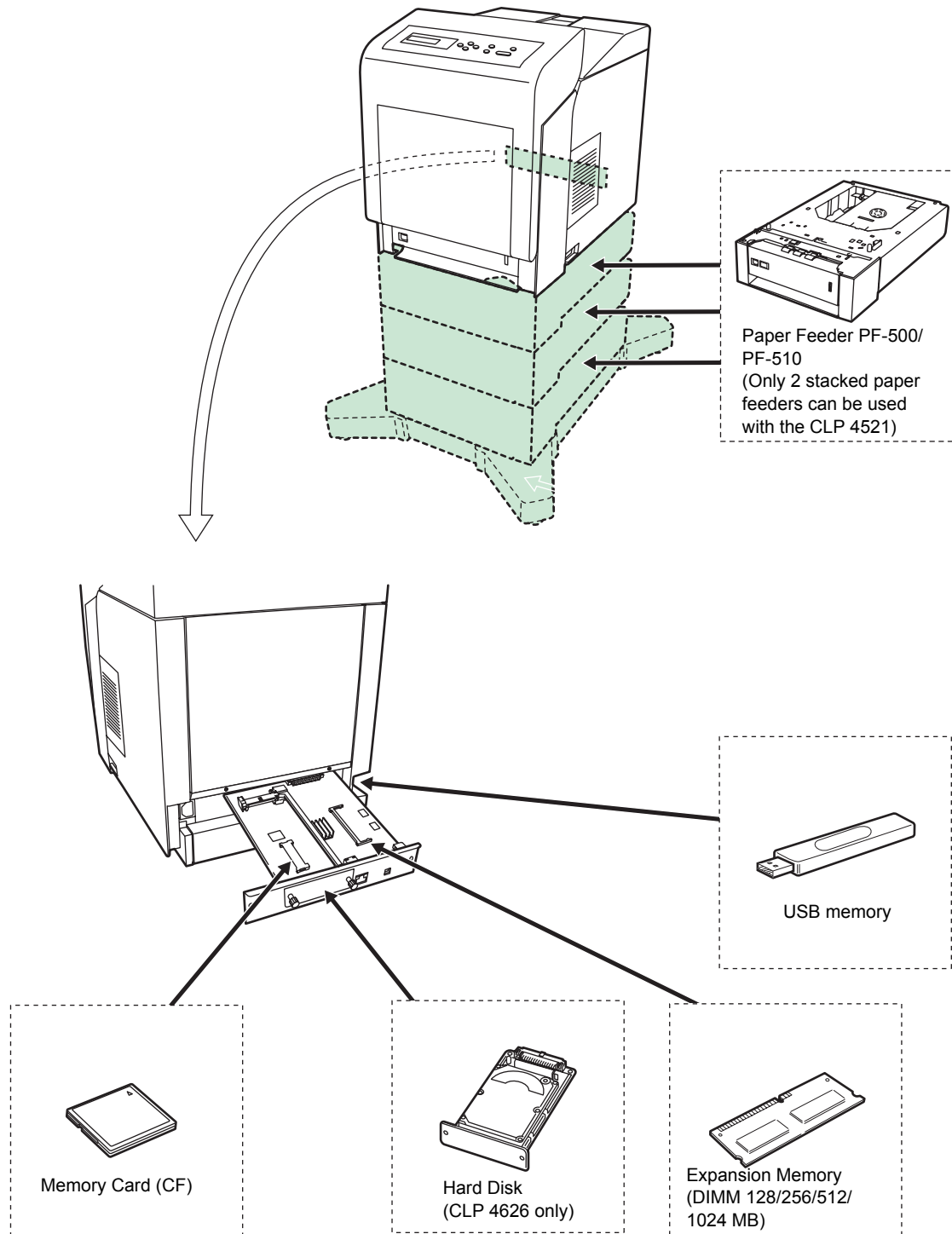
This chapter contains explanations on the following topics:

General Information	7-2
Expansion Memory Modules	7-3
General Description of Options	7-5

For availability of the options, consult your service technician.

General Information

This printer has the following options available to satisfy your printing requirements. For instructions on installing individual options, refer to the documentation included with the option. Some options are explained in the following sections.



Expansion Memory Modules

The printer's main controller board has a memory slot into which you can plug in optional memory modules (dual in line memory modules). You can increase the printer's memory up to 1280 MB by plugging in the optional memory modules.



Note A 256 MB memory module is already installed at the factory. To expand memory up to 1280 MB, install 1024 MB memory module.

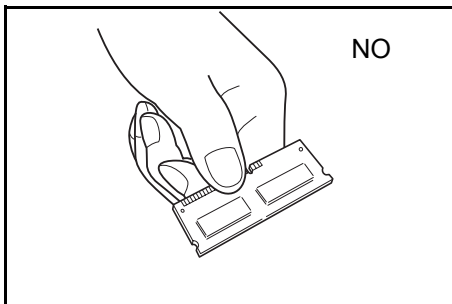
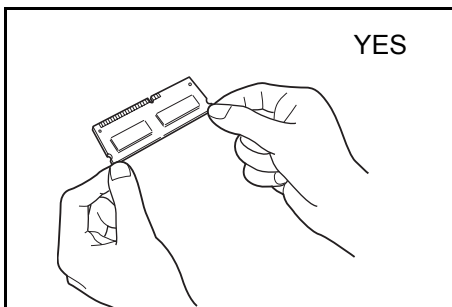
Expansion Memory Modules

You can select additional memory modules from 128, 256, 512 or 1024 MB. The maximum memory size is 1024 MB.

Precautions for Handling the Printer's Main Controller Board and Memory Modules

To protect electronic parts, discharge static electricity from your body by touching a water pipe (faucet) or other large metal object before handling the memory modules. Or, wear an antistatic wrist strap, if possible, when you install the memory modules.

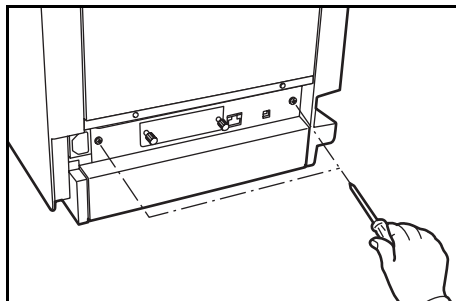
Always hold the main controller board or a memory module by its edges as shown below to avoid damaging electronic parts.



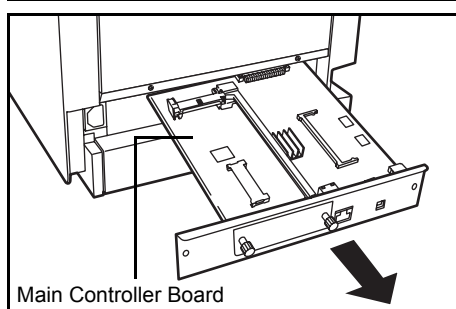
Installing the Memory Modules

IMPORTANT Remove any USB memory that is attached to the printer's USB memory slot.

- 1 Power off the printer and unplug the printer power cord.
- 2 Unscrew two screws at the back of the main controller board.



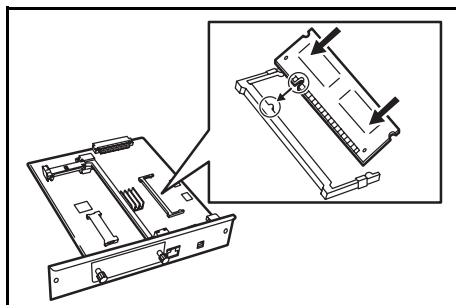
- 3 Pull out the main controller board gently.



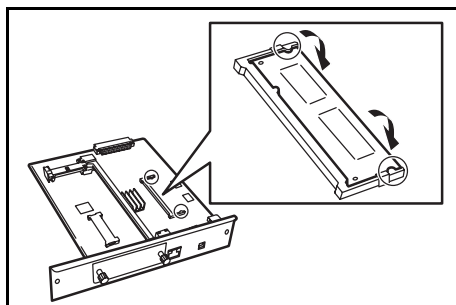
- 4 Remove the memory module from its package. Aligning the cutouts of the memory module with the matching keys of the socket, carefully plug the memory module into the memory socket until it clicks in place.



CAUTION Do not plug the memory module backwards.



- 5 Push down the memory module to secure.



- 6 After you finish installing the memory modules, reinstall the main controller board and fasten it with screws.

Removing a Memory Module

To remove a memory module, remove the main controller board, then carefully push out the two socket clamps. Ease the memory module out of the socket to remove.

General Description of Options

Memory Card

The printer is equipped with a slot for a memory card with the maximum size of 4 GB. A memory card is useful for storing fonts, macros, and overlays.

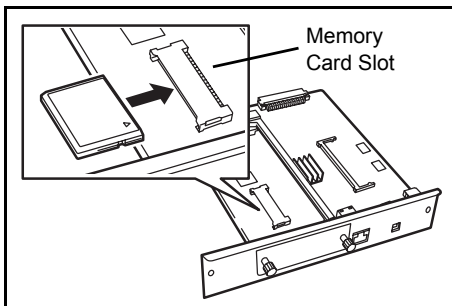
Reading the Memory Card

Once inserted in the printer's slot, the contents of the memory card can be read from the operation panel or automatically when you power on or reset the printer. To manually read data in the memory card, refer to *Memory Card (Using the memory card)* on page 6-52.

Formatting the Memory Card

To use an unused memory card, you must first use the printer to format the memory card.

- 1 Switch off the printer, remove the electrical cord and then remove the main controller unit. To read how to remove the main controller unit, refer to the section on inserting the memory module.
- 2 Insert the memory card into the memory card slot.



PF-500, PF-510 Paper Feeder

The optional paper feeder PF-500 (for plain paper) and PF-510 (for multiuse media) will each hold approximately 500 sheets of paper. Up to 3 optional feeders can be added to the bottom of the printer (only 2 stacked paper feeders can be used with the CLP 4521), allowing continuous feeding of up to 2,000 sheets of paper (1,250 sheets in the CLP 4521) when combined with the printer's own cassette.

IMPORTANT When you use the paper feeder, place the papers and envelopes print-side up.

The papers that can be used in the cassettes supplied with the paper feeders are as follows:

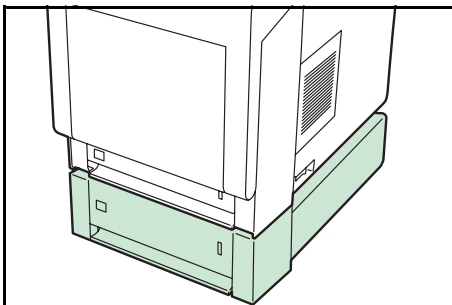
PF-500 :

Paper size : Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, A5, B5, ISO B5, A4, Executive, Letter, Legal, OfufukuHagaki, Oficio II, Statement, Folio, Youkei 2, Youkei 4, 16K and Other (92 x 165 mm to 216 x 356 mm)

Paper type : Plain, preprinted, bond, recycled, rough, letterhead, color, prepunched, high quality, custom 1 (to 8)

PF-510 :

Paper size : Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, A5, B5, ISO B5, A4, Executive, Letter, Legal, OfufukuHagaki, Oficio II,

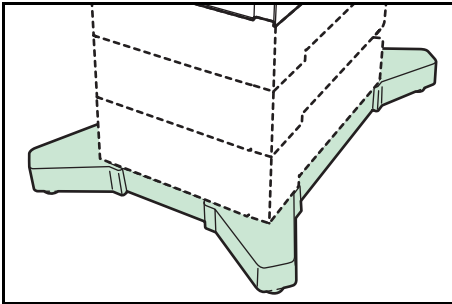


Statement, Folio, Youkei 2, Youkei 4, 16K and Other (92 x 162 mm to 216 x 356 mm)

Paper type : Plain, preprinted, labels, bond, recycled, rough, letterhead, color, prepunched, cardstock, envelope, coated, thick, high quality, custom 1 (to 8)

IMPORTANT Please make sure that the machine is stable, by placing the paper feeders on a sturdy desk or base.

Base (CA-500)



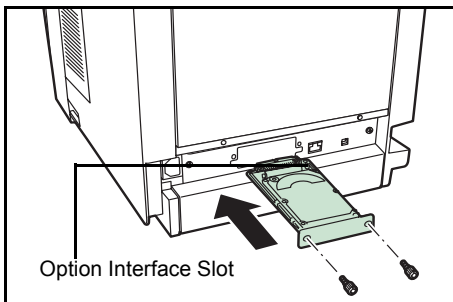
If you are attaching paper feeder PF-500 or PF-510 to the printer and installing it on the floor, you can use a base to maintain the machine's stability.

For detailed information on installing the base, refer to the manual supplied with the base.

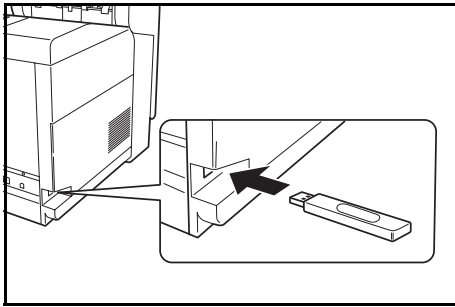
IMPORTANT Be careful to not trip on the feet of the base.

Hard Disk

IMPORTANT A hard disk can only be installed in the CLP 4626.



Insert the hard disk into the option interface slot. If a hard disk is installed in the printer, received data can be rasterized and stored on this hard disk. This enables high-speed printing of multiple copies using an electric sort function. Also, you can use the Job Box functions. For details, refer to *Job Box* on page 6-19.



USB Memory

USB memory is a type of simple, highly portable flash memory that plugs into the USB memory slot. Files stored in USB memory can be printed by plugging the USB memory into the printer and then specifying the desired file names from the operation panel.

The operation panel displays the names of PDF, TIFF, JPEG and XPS files.

Up to 100 files can be printed from USB memory. Files with names consisting of up to 99 single-byte alphanumeric characters can be printed. However, because the message display will only show 12 characters, files with 13 or more characters cannot be identified on the message display.

Any double-byte characters included in a file name appear as corrupted text in the message list. Also, when the file is printed an error message appears and printing fails.

For information on printing PDF files stored in USB memory, refer to *USB Memory (USB memory selection)* on page 6-17.

For information on supported USB memory devices, contact your service technician.

8 Computer Interface

This chapter contains explanations on the following topics:

Interface	8-2
USB Interface	8-2
Network Interface	8-3

Interface

This chapter explains the signals used in the printer's USB, and network interfaces. It also lists pin assignments, signal functions, timings, connector specifications, and voltage levels.

- USB Interface
- Network Interface

USB Interface

This printer supports the Hi-Speed USB. USB (Universal Serial Bus) interface specifications and interface signals are as follows.

Specifications

Basic Specification

Complies with the Universal Serial Bus Specification Revision 2.0.

Connectors

Printer: B-type receptacle (female) with upstream port

Cable: B-type plug (male)

Cable

Use a shielded cable that complies with USB 2.0 (Hi-Speed USB) and not longer than 5 meters (16 feet).

Transfer Mode

High speed (480 Mbps maximum)

Full-Speed (12 Mbps maximum)

Power Control

Self-power device

Interface Signals

USB Connector Pin Assignment

Pin	Signal	Description
1	Vbus	Power supply (+5 V)
2	D-	Data transmission
3	D+	Data transmission
4	GND	Signal ground
Shell	—	Shield

Network Interface

Features

Automatic IP Address Resolution

This feature is compatible with the DHCP/DHCPv6 protocol and allows the printer to automatically receive IP addresses from the DHCP/DHCPv6 server.

Management using Web Browsers

HTTP pages are incorporated in to the interface, so that a web browser can be used to monitor and change a range of settings. The settings can be password-protected.

Support for a Range of Protocols

The SMTP, POP3, SSL, SNMP, IPv6 and NetBIOS over TCP/IP protocols are supported for easier printer management and more robust security.

Support for IEEE 802.1x

The interface supports EAP-TLS and PEAP authentication.

Supports IPv6

Supports IPv6, which is based on IPv4 with improvements, such as increased manageable address space, additional security functions and priority based data transmission.

Supports IPSec

Supports IPSec, the security protocol that authenticates and encrypts in the network layer (IP layer).

Specifications

Connector

10 Base-T/100 Base-TX

Operating Systems

Windows 2000/XP/Vista/Server2003, MacOS 10.x

Network Protocols

- IPv6: HTTP, LPD, FTP, IPP, RawPort, ICMPv6, LLTD, SNTP, DHCPv6, SMTP, POP3, DNS, SNMPv1/v2c/v3, WSD
- IPv4: HTTP, HTTPS, LPD, FTP, IPP, RawPort, ICMP, DHCP, SMTP, POP3, SNTP, DNS, WINS, NetBIOS over TCP/IP, SNMPv1/v2c/v3, Apple Bonjour Compatible, IPPS, LLTD, WSD
- Etc.: IPX/SPX, NetWare (NDS/Bindery), AppleTalk, NetBEUI

Security Protocols

SSL/TLS (HTTPS, IPPS), SNMPv3, EAP-TLS, PEAP, AH, ESP

Operation Environment

10 to 35 °C (50 to 95 °F), 20-80 % RH (condensation-free)

EMI Countermeasures

VCCI Class B, FCC Class B (U.S.), CE (Europe)

IMPORTANT When IPv6 functions are used, the devices used on the network (routers, PCs, etc) must support IPv6.

9 Specifications



Note Specifications are subject to change without notice.

Item		Description		
		CLP 4521	CLP 4621	CLP 4626
Printing Method		Electrophotographic four color (CMYK) printing using tandem (4) drum system		
Printing Speeds	Cassette	A4: 21 ppm, B5, A5, A6: 23 ppm ^{*1} , Letter: 23 ppm, Legal: 17 ppm		A4: 26 ppm, B5, A5, A6: 28 ppm ^{*1} , Letter: 28 ppm, Legal: 22 ppm
	MP Tray	A4: 19 ppm, B5, A5, A6: 20 ppm ^{*1} , Letter: 20 ppm, Legal: 17 ppm		A4: 23 ppm, B5, A5, A6: 24 ppm ^{*1} , Letter: 24 ppm, Legal: 20 ppm
Duplex Printing Speed		A4: 11 ppm, B5, A5: 11 ppm ^{*2} , Letter: 11 ppm, Legal: 8 ppm		A4: 26 ppm, B5, A5: 28 ppm ^{*1} , Letter: 28 ppm, Legal: 11 ppm
Resolution		600 dpi		
First Print Out Time		B/W : 10.5 seconds or less Color : 12 seconds or less (Sleep: 35 seconds or less)		B/W : 9 seconds or less Color : 10.5 seconds or less (Sleep: 35 seconds or less)
Warm-up Time (23°C, 60%RH)	Power On	44 seconds or less		36 seconds or less
	Sleep (within 3 hours)	25 seconds or less		30 seconds or less
Controller		PowerPC440-533 MHz		PowerPC440-667 MHz
Memory	Standard	256 MB		
	Maximum	1280 MB		
Operating Systems		Microsoft Windows 2000/XP/Vista, Windows Server 2003 Apple Macintosh OS X		
Interface	Standard	USB: Hi-Speed USB Network: 10 BASE-T/100 BASE-TX KUIO-LV slot		
	Option	-		Hard Disk
Memory Card Slot		1 (Compact Flash, 4 GB or less)		
Monthly Duty	Average	1,500 pages	2,000 pages	3,000 pages
	Maximum	50,000 pages	65,000 pages	100,000 pages

*1 : After 16 pages the printing speed becomes 14 ppm.

*2 : After 16 pages the printing speed becomes 7 ppm.

Item		Description		
		CLP 4521	CLP 4621	CLP 4626
Paper Sizes	Cassette	A4, B5, A5, Folio, 8 1/2 × 14"(Legal), 8 1/2 × 11"(Letter), Oficio II, Statement, Executive, ISO B5, A6, Envelope C5, 16K, and Custom		
	Cassette (Optional Paper Feeder PF-500/ PF-510)	Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, A5, B5, ISO B5, A4, Executive, Letter, Legal, OufukuHagaki, Oficio II, Statement, Folio, Youkei 2, Youkei 4, 16K, and Custom		
	MP Tray	A4, B5, A5, Folio, 8 1/2 × 14"(Legal), 8 1/2 × 11"(Letter), Oficio II, Statement, Executive, A6, B6, ISO B5, Env. Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope DL, Envelope C5, 16K, Hagaki, OufukuHagaki, Youkei 2, Youkei 4, and Custom		
Paper Types†	Cassette (Optional Paper Feeder PF-500)	Plain, preprinted, bond, recycled, rough, letterhead, color, prepunched, high quality, and custom		
	Cassette (Optional Paper Feeder PF-510)	Plain, preprinted, labels, bond, recycled, rough, letterhead, color, prepunched, envelope, cardstock, coated, thick, high quality, and custom		
	MP Tray	Plain, transparency, preprinted, labels, bond, recycled, vellum, rough, letterhead, color, prepunched, envelope, cardstock, coated, thick, high quality, and custom		
Paper Feed Source Capacity	Cassette	250 sheets (80 g/m ²)	500 sheets (80 g/m ²)	
	MP Tray	150 sheets (80 g/m ²)	150 sheets (80 g/m ²)	
Margin		4 mm (left, right, top and bottom)		
Output Tray Capacity	Top Tray	250 sheets (80 g/m ²)		
Operation Environment	Temperature	10 to 32.5 °C (50 to 90.5 °F)		
	Relative Humidity	15 to 80 %		
	Altitude	2,500 m (8,202 feet) maximum		
	Illumination	1,500 lux maximum		
Power Source		120 V, 60 Hz, max. 9.2 A (U.S.A./Canada) 220-240 V, 50 Hz/60 Hz, max. 4.7 A (European countries) Max. allowable voltage fluctuation: ±10 % Max. allowable frequency fluctuation: ±2 %		
Power Consumption	Maximum	1,231 W or less	1,221 W or less	1,233 W or less
	During Printing	405 W	420 W	477 W
	During Standby	69 W	70 W	79 W
	During Sleep Mode	7 W	7 W	7 W
	Power Off	0 W	0 W	0 W

Item		Description		
		CLP 4521	CLP 4621	CLP 4626
Operating Noise ^{††}	During Printing	LpA = 53 dB (A)		
	During Standby	LpA = 36 dB (A)		
	During Sleep Mode	immeasurably low		
Dimensions (W x D x H)		345 × 518 × 455 mm 13-5/8 × 18-1/2 × 17-9/10"	345 × 518 × 480 mm 13-5/8 × 20-2/5 × 18-9/10"	
Weight		Approx. 28 kg (61 lbs)	Approx. 29 kg (64 lbs)	Approx. 29.5 kg (65 lbs)

†. When using CUSTOM 1 (to 8), use the MP tray for paper sizes smaller than 105 × 148 mm (4 1/8 × 5 13/16 inches). The MP tray can be used with paper sizes over 70 × 138 mm (2 3/4 × 5 7/16 inches).

††. Sound pressure level at bystander position [front] in accordance with EN ISO 7779.

Glossary

Additional memory

An additional memory (optional) is used for increasing the memory capacity of this machine. For DIMM that can be used in this machine, contact your service technician.

AppleTalk

AppleTalk offers file sharing and printer sharing and it also enables you to utilize application software that is on another computer on the same AppleTalk network.

Default Gateway

This indicates the device, such as a computer or router, that serves as the entrance/exit (gateway) for accessing computers outside of the network that you are on. When no specific gateway is designated for a destination IP address, data is sent to the host that is designated as the Default Gateway.

DHCP (Dynamic Host Configuration Protocol)

This is a protocol that automatically resolves the IP address, Subnet Mask and Gateway address on a TCP/IP network. Use of DHCP minimizes the load of network administration, especially on network environments with a large number of client computers where it is not specifically necessary to assign a separate IP address to each client, including printers.

dpi (dots per inch)

This indicates the number of dots printed per inch (25.4 mm) as a unit for expressing resolution.

EcoPrint

This is a printing mode that reduces toner consumption. Pages printed in the EcoPrint mode are lighter than pages printed in the normal mode.

Emulation

This refers to emulation of other manufacturers' printers. The printer emulates operation of the following printers: PCL6 and KPDLL.

Form Feed Timeout

While data is being sent to a printer, some pauses may occur. At this time, the printer waits for the next data without making a page break. Form feed timeout is a function to wait only a preset amount of time before it executes an automatic page break. After the waiting period begins, once the designated amount of time is exceeded, the printer will automatically process the currently received data and print it out. If the machine has received no print data for the last page, the printer ends processing of that job without outputting paper.

IP Address (Internet Protocol Address)

The Internet Protocol address is a unique number that represents a specific computer in a network. The format of an IP Address is four numbers separated by dots, e.g. 192.168.110.171. Each number should be a decimal between 0 and 255.

KPDL

KPDL is Kyocera's implementation of the PostScript page description language Level3.

MP Tray

This tray is used instead of the cassette when printing on envelopes, postcards, transparency sheets, and labels.

NetBEUI (NetBIOS Extended User Interface)

An enhanced version of the NetBIOS protocol, it enables the utilization of more advanced functions on small-scale networks than do other protocols such as TCP/IP, etc.

Outline font

With outline fonts, character outlines are represented with numerical expressions and fonts can be enlarged or reduced in different ways by changing the numeric values of those expressions. Printing remains clear even if you enlarge fonts, since the characters are defined with outlines represented with numerical expressions. You can specify the font size in steps of 0.25 points up to 999.75 points.

PostScript

This is a page description language developed by Adobe Systems, Inc. It enables flexible font functions and highly-functional graphics, allowing higher quality printing.

PPM (prints per minute)

This indicates the number of printouts made in one minute.

Printer driver

The printer driver makes it possible for you to print data created using application software. The printer driver for the printer is contained on the CD-ROM supplied with the printer. Install the printer driver on the computer connected to the printer.

Sleep mode

This mode is provided to save power. It is activated when the machine is not used for a preset period of time. In this mode, power is reduced to the minimum. The default setting can be changed.

Status page

This lists machine conditions, such as the machine's memory, the total number of prints and paper source settings. You can print the status page from the operation panel.

Subnet Mask

This is a 32-bit numerical value that defines which bits of the IP address specify the network address and which specify the host address.

TCP/IP (Transmission Control Protocol/Internet Protocol)

TCP/IP is a suite of protocols designed to define the way computers and other devices communicate with each other over a network.

USB (Universal Serial Bus)

An interface standard for low to middle speed serial interfaces. This printer supports Hi-Speed USB. The maximum transfer rate is 480 Mbps and the maximum cable length is 5 meters (16 feet).

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We recommend the use of our own brand supplies.

We will not be liable for any damage caused by the use of third party supplies in this machine.



